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# JAMECO<sup>®</sup>

## ELECTRONICS

Catalog 294  
November 2009





## Interchangeable Wall Adapters

No need to buy any extra adapters.

Travel around the world with our extended offering of interchangeable wall adapters. Our selection of adapters allows you to interchange 4 different output plugs suitable for use in the UK, Europe, Australia and the United States.

Simply slide and snap the input plug into the main cavity then plug into the wall and you have power. Choose from a variety of outputs for your specific needs individually or as a kit. All of our interchangeable wall adapters have universal input ranging from 90VAC to 264VAC; power-on LED, regulated DC outputs, 2.1mm x 5.5mm female center positive output plug and are US and European energy star compliant.

Plug Clips Sold Separately See Page 127

Part No.	Mfr.	Product No.	Power (W)	Output Voltage @ Current	1	10
2082302	Mean Well	GE1205-P1J	10	5 @ 2.0 ...	\$13.95	\$12.49
2082311	Mean Well	GE1809-P1J	18	9 @ 2.0 .....	18.95	16.95
2082329	Phihong	PSC30R-120	30	12 @ 2.5 .....	23.95	21.49
2082337	Mean Well	GE12115-P1J	12	15 @ 0.8 .....	13.95	12.49
2082345	Mean Well	GE12124-P1J	15	24 @ 0.63 ....	13.95	12.49

## Renewable Energy Science Education Kit

Discover how to produce, store and use the clean energy for the future!

The renewable energy kit is a modular experiment set designed to demonstrate clean energy technology systems on a miniature scale. To encourage users to learn the system step-by-step, it includes a wind turbine kit, a solar photovoltaic panel, electrolyzer, PEM fuel cell and hydrogen storage system, allowing builders to configure the system in different ways, and visualize the workings of clean energy principles from start to finish.

For More Educational Kits See Pages 183 - 185

Part No.	Description	1	5
2095015	56-Piece Intermediate Level Kit .....	\$199.95	\$194.95



## Wireless AC Circuit Identifier with External Probe

Virtual electrician's helper remotely identifies and confirms correct circuit is opened

Have you ever been in a situation where you need to identify AC wiring and need an assistant to run from room to basement to switch the circuit breaker on and off? This wireless AC circuit identifier is the solution for your problems. The circuit identifier combines non-contact voltage and light detection with RF transmission technology.

Simply clamp the transmitter unit to the wire or with the light sensor facing up, and now with the receiver in hand, you can switch the circuit breaker off and on. An audible alarm and LED alerts you if you have switched the correct circuit from the panel. An external clamp is included for those hard to reach wires where the main unit cannot be reached. It is the perfect virtual assistant for electricians, general contractors, and do-it-yourselfers. **Includes:** Four AAA batteries, transmitter, receiver, remote clamp-style probe, and pouch.

For More Extech Test Equipment See Pages 147 - 155

Part No.	Description	1	5
2094282	AC Circuit Identifier .....	\$129.95	\$119.95

## Category 6 Network Cable

Reduced prices!

Our Category 6 network cables come with hooded RJ-45 plugs, gold over nickel contacts and molded strain-reliefs for protection and durability. Assembled using ETL verified 24AWG stranded cables. They exceed performance levels as specified in TIA/EIA 568.2-1 category 6. Cables are available in different lengths and colors to fulfill your specific requirements.

For More Network Cables See Pages 61 - 62

Part No.	Description	1	10
219854	3' Blue Network Cable .....	\$2.25	\$1.95



## Marksman 25-Watt Home Project Kit

Ideal for projects that require light to medium repair work. This 25-Watt soldering iron provides up to 750°F of temperature.

Includes light ring indicator, stainless steel barrel, and heat/impact resistant handle to provide safety and durability for the user. Comes with lead free solder, MT1, MT2, MT3 tips and a hot knife tip, ideal for cutting rope or thin plastic sheets.

For More Soldering Products see Pages 161 - 166

Part No.	Description	1	10
2094143	25-Watt Soldering Iron Kit .....	\$19.95	\$18.95

## Proximity & Ultrasonic Sensors

For all your sensing needs including proximity, pressure, light, gas, movement or humidity we have you covered. Depending on the type of sensors you require, our sensors range in sensitivity between 2mm to 5mm in distances, speeds in feet per second to miles per hour, or pressure in pounds per square inch. All of our sensors are designed for commercial and industrial applications such as robotics, tool positioning, control, counting and detection.

For More Sensors See Pages 100 - 102

Part No.	Description		1	10
167020	Proximity Switch Sensor	12VDC .....	\$21.95	\$19.75
136654	Ultrasonic Sensor Set	40kHz .....	7.95	6.95



## PIC Microcontrollers

Jameco offers a huge selection of Microchip 8-bit PIC® Microcontrollers! These flexible microcontrollers are perfect for all kinds of applications, from lighting and home appliances to motor control and embedded automotive solutions, to wired and wireless connectivity!

For More PIC Microcontrollers and Complete Specs See Page 11

Part No.	Mfr.	Part No.	Description	Pkg.	1	25
145040	PIC12C508A-04/PR	512 OTP, 4MHz	DIP-8	....	\$ .95	\$ .85
223781	PIC12F675-I/PR	1k flash, 20MHz	DIP-8	....	1.09	.99
247038	PIC16F877A-I/PR	8k flash, 20MHz	DIP-40	..	4.75	4.55
248111	PIC18F1320-I/PR	8k flash, 40MHz	DIP-18	..	3.95	3.49
248057	PIC18F458-I/PR	32k flash, 40MHz	DIP-40	..	6.95	6.75

## Buzzers and Audible Alerts

Jameco carries all shapes and sizes of buzzers in many different frequencies and operating voltages. Our product lines include piezo sirens and buzzers, magnetic transducers and electromechanical buzzers. Whatever you need, whether it be surface mount or cabled, small or large, black or white, 400 or 4000Hz, we have it and bring it to you with our aggressive pricing!

For More Sound Devices See Pages 102 - 104

Part No.	Description	Volt Range	Tone	1	10
76021	Piezo Buzzer	1.5-28	Single .....	\$3.95	\$3.49
196357	Piezo Buzzer	3-16	Single .....	1.75	1.49

# Hard Times... Good People

This striking image of Dorothea Lange's "White Angel Breadline," shot on the waterfront in San Francisco during the height of the Great Depression in 1933, mirrors an image of the economic crisis we find ourselves in again in 2009.

We at Jameco understand these times of economic uncertainty. When you struggle, we struggle. At a time of high unemployment, the Jameco management team has taken salary cuts to ensure the continued full employment of the trained professionals you have come to depend on for the past 35 years. Our success has been fueled by loyal employees and customers alike and we are redoubling our commitment to both. Jameco stands for consistent service and incredible values from people you can count on. Thank you for your business. We will never take your business for granted.



## Moving Forward...

The Jameco family will be working hard in the months ahead to demonstrate to our customers that we are very different from other companies. Call us today at 800-831-4242 and give us a chance to earn your business.

Dorothea Lange, American, 1895-1965, White Angel Breadline, San Francisco, 1933

© The Dorothea Lange Collection, Oakland Museum of California, City of Oakland. Gift of Paul S. Taylor.

**Pricing** In this catalog we feature a wealth of name brand products, plus a collection of lower-priced options. Look for **YELLOW** pricing throughout the catalog which signifies our house brands and **GREEN** pricing which signifies our special, factory overrun inventory that holds even deeper discounts.

Product No.	Contacts	Gender	1	10	100
DB9P590	9	M	\$.95	\$.85	\$.75
DB9S590	9	F	.95	.85	.75
DA15P590†	15	M	.95	.75	.65
DA15S590†	15	F	1.19	.95	.75
DB25P590†	25	M	1.19	.95	.75
DB25S590	25	M	1.49	1.25	1.09
DB25S590†	25	F	1.29	1.09	.85

While this catalog is packed with over 11,000 of our best selling products, it only represents the beginning of the price savings Jameco has to offer. [Jameco.com](http://Jameco.com) features two online centers with inventory priced at or near cost:



[www.Jameco.com/Clearance](http://www.Jameco.com/Clearance)

Our online clearance center offers excess inventory, factory overruns and discontinued product lines that have been heavily discounted and priced to move. These products are available in large and small quantities.



[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)

The Tech Center offers heavily discontinued products and accessories, special customer cancellations and a variety of new products that didn't make the catalog. These products are available in small quantities and while supplies last.

Visit the Tech Closeout Center on the third Tuesday of every month for an additional **20%** discount. We call it **TAKEDOWN TUESDAYS** and remember it's for one day only!

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## IC Index

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LCC	LQFP/STQFP/ TQFP	MB-35	Micro SMD	MQFP	MW	PLCC	PWAT	QFN	SC70
SIP	SMA/SMB/SMC/ DO-214AB	S0	SOD-123	SOIC/SOJ/SOP	SOT-143/SOT-363/ SuperSOT-6	T0-218/T0-220/ T0-220AB/T0-220F	SOT-223/SOT-89	SOT-23/Micro-3/ SuperSOT-3	SSOP/MSOP
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Please refer to datasheets at [www.Jameco.com](http://www.Jameco.com) for more detailed illustrations and specifications





## 7400 Series

\*Web Code: XAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
48979	+	7400N**	DIP-14	Quad 2-input pos. NAND gate .....	\$ .89	\$ .79	\$ .65
910901	TI	SN7400N	DIP-14	Quad 2-input pos. NAND gate .....	.99	.89	.75
49007	+	7401N	DIP-14	Quad 2-input NAND gate (O.C.) .....	.89	.79	.65
49015	+	7402N*	DIP-14	Quad 2-input pos. NOR gate .....	1.09	.95	.75
49040	+	7404N**	DIP-14	Hex inverter .....	1.09	.95	.75
49074	+	7405N*	DIP-14	Hex inverter (O.C.) .....	.69	.59	.45
49091	+	7406N**	DIP-14	Hex inverter buffer/driver .....	.69	.65	.59
910987	TI	SN7406N	DIP-14	Hex inverter buffer/driver .....	.79	.75	.65
49120	+	7407N**	DIP-14	Hex buffer/driver .....	.69	.65	.59
49146	+	7408N*	DIP-14	Quad 2-input pos. AND gate .....	1.49	1.35	1.25
49189	+	7410N*	DIP-14	Triple 3-input pos. NAND gate .....	.89	.79	.59
49402	+	7413N	DIP-14	Dual 4-input pos. NAND gate .....	1.25	1.15	1.05
49437	+	7414N*	DIP-14	Hex schmitt-trigger inverter .....	.89	.79	.69
49630	+	7416N*	DIP-14	Hex inverter buffer/driver (O.C.) .....	1.19	1.09	.99
49728	+	7417N*	DIP-14	Hex buffer/driver (O.C. hi-volt) ..	1.09	.99	.89
50008	+	7420N*	DIP-14	Dual 4-input NAND gate .....	.99	.89	.75
50139	+	7427N	DIP-14	Triple 3-input NOR gate .....	.89	.79	.69
50227	+	7430N*	DIP-14	8-input NAND gate .....	.69	.59	.45
50235	+	7432N*	DIP-14	Quad 2-input pos. OR gate .....	1.05	.95	.75
50315	+	7438N*	DIP-14	Quad 2-input NAND buffer .....	.79	.69	.59
50374	+	7442N	DIP-16	4 line BCD to 10 line decimal decoder ..	1.45	1.25	1.15
50403	+	7445N	DIP-16	BCD-to-decimal decoder/driver ..	1.55	1.35	1.09
50420	+	7447N*	DIP-16	BCD-to-7 seg. decoder/driver .....	1.59	1.45	1.15
50526	+	7472N	DIP-14	AND-gated J-K master-slave flip-flop ..	.89	.79	.69
50534	+	7473N	DIP-14	Dual J-K neg-edge-triggered flip-flop ..	1.95	1.75	1.59
50551	+	7474N**	DIP-14	Dual D type flip-flop .....	.79	.69	.59
50577	+	7475N	DIP-16	4-bit bistable latch .....	2.49	2.35	2.19
50593	+	7476N	DIP-16	Dual J-K pos-edge-triggered flip-flop ..	2.95	2.65	2.39
50631	+	7483N	DIP-16	4-bit binary full adder .....	2.95	2.65	2.39
50657	+	7485N*	DIP-16	4-bit magnitude comparator .....	2.15	1.95	1.75
50665	+	7486N	DIP-14	Quad 2-input exclusive OR gate ..	1.75	1.59	1.45
50681	+	7489N	DIP-16	64-bit read/write mem .....	3.95	3.75	3.49
50690	+	7490N	DIP-14	Asynchronous decade counter ...	2.95	2.65	2.39
50745	+	7493N	DIP-14	4-bit binary counter .....	1.75	1.59	1.45
50770	+	7495N*	DIP-14	4-bit parallel-access shift register ..	1.45	1.25	1.15
49234	+	74107N*	DIP-14	Dual J-K flip-flop with clear .....	.79	.69	.59
49322	+	74121N*	DIP-14	Monostable multivibrator .....	1.49	1.35	1.25
49357	+	74123N*	DIP-16	Dual monostable multivibrator .....	1.75	1.59	1.45
49373	+	74125N	DIP-14	Tri-state quad bus buffer .....	1.49	1.35	1.19
49496	+	74148N	DIP-16	8-to-3 line priority encoder .....	1.19	1.09	.79
49509	+	74150N	DIP-24	1-of-16 data selector/multiplexer ..	2.49	2.09	1.75
49525	+	74151N*	DIP-16	1-of-8 data selector/multiplexer ....	.79	.69	.45
49550	+	74153N*	DIP-16	Dual 4-to-1 data selector/multiplexer ..	1.19	1.09	.79
49568	+	74154N	DIP-24	4-to-16 line decoder/demultiplexer ..	1.95	1.75	1.49
49605	+	74157N*	DIP-16	Quad 2-to-1 line data selector .....	.99	.89	.79
49648	+	74160N*	DIP-16	Synchronous decade counter .....	.59	.55	.49
49664	+	74161N	DIP-16	4-bit Synchronous binary counter ...	.89	.79	.69
49672	+	74163N	DIP-16	Synchronous 4-bit binary counter ...	.79	.69	.59
49681	+	74164N	DIP-14	8-bit serial shift register .....	.89	.79	.59
49779	+	74174N*	DIP-16	Hex D-type flip-flop with clear .....	.69	.59	.49
49795	+	74175N*	DIP-16	Quad D-type flip-flop with clear ..	1.35	1.25	1.15
49832	+	74180N	DIP-14	9-bit odd/even parity generatr/checker ..	.99	.89	.49
49883	+	74189N	DIP-16	Tri-state 64-bit RAM .....	2.95	2.75	2.49
49904	+	74191N	DIP-16	Synch. 4-bit up/down binary counter ..	1.95	1.75	1.45
49912	+	74192N	DIP-16	Synch. 4-bit up/down decade counter ..	3.95	3.75	3.49
49939	+	74193N	DIP-16	Synch. 4-bit up/down binary counter ..	2.95	2.75	2.49
49955	+	74194N	DIP-16	4-bit bi-directional shift register ..	1.75	1.55	1.35
49963	+	74195N	DIP-16	4-bit parallel-access shift register ..	1.75	1.55	1.35

\*10 pcs./ \*\*20 pcs. in 7400 series IC cabinet kit, top right

## 7400 Series IC Kit

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and 30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7430, 7432, 7438, 7447, 7470, 7485, 74107, 74121, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474



SAVE \$145

Part No.	Description	Wt. (lbs.)	1	5
84953	350 pcs. 7400 IC kit	6.2	\$199.95	\$179.95

## 74ABT/AC/ACT Series

Please Note: Manufacturer may vary

\*Web Code: CBA

\* Order in multiples of 10

Part No.	Product No.	Pkg.	Description	1	10	100
266159	74ACT08M	SOIC-14	Quad 2-input pos. AND gate .....	* .15	* .12	* .12
211983	74ACT08N	DIP-14	Quad 2-input pos. AND gate .....	.25	.19	.17
264145	74AC10M	DIP-14	Triple 3-input pos. NAND gate .....	* .09	* .06	* .06
238887	74AC10N	DIP-14	Triple 3-input pos. NAND gate .....	.29	.25	.19
212003	74ACT32N	DIP-14	Quad 2-input pos. OR gate .....	* .15	* .12	* .12
212011	74ACT74N	DIP-14	Dual D type flip-flop .....	* .19	* .17	* .17
238730	74AC139N	DIP-16	Dual 2-to-4 decoder/demultiplexer ...	.25	.22	.17
238764	74AC157N	DIP-16	Quad 2-to-1 line data selector .....	.49	.39	.35
239054	74ACT174N	DIP-16	Hex D-type flip-flop with clear .....	.39	.35	.29
211908	74AC244N	DIP-20	Tri-state octal buffer/line driver .....	* .12	* .09	* .09
212054	74ACT244N	DIP-20	Tri-state octal buffer/line driver .....	* .15	* .12	* .12
214199	74AHC245N	DIP-20	Tri-state octal bus transceiver .....	* .15	* .12	* .12
214236	74AHC574N	DIP-20	Tri-state octal D-type flip-flop .....	.25	.19	.15
267371	74ACT715M	SOIC-20	Programmable video sync generator ..	6.95	5.95	—
291784	74ABT2244AD	SOIC-20	Tri-state octal buffer .....	* .15	* .12	* .12
291400	74ABT5402AD	SOIC-28	Tri-state 12-bit line/memory driver ..	2.95	2.49	1.95

## 74ALS/ALVC Series

Please Note: Manufacturer may vary

\*Web Code: SVC

Part No.	Product No.	Pkg.	Description	1	10	100
245294	74ALS00AN	DIP-14	Quad 2-input pos. NAND gate .....	\$ .25	\$ .22	\$ .19
314309	74ALVC00T	TSSOP-14	Quad 2-input pos. NAND gate .....	.25	.15	.12
245307	74ALS04BN	DIP-14	Hex inverter .....	.25	.22	.19
314341	74ALVC08T	TSSOP-14	Quad 2-input pos. AND gate .....	.25	.15	.12
44134	74ALS32N	DIP-14	Quad 2-input pos. OR gate .....	.25	.22	.19
245892	74ALS74AN	DIP-14	Dual D-type flip-flop .....	.35	.25	.22
310295	74ALS244AM	SOIC-20	Tri-state octal buffer/line driver .....	.35	.25	.22
245788	74ALS258N	DIP-20	Quad 2-to-1 line data selector/multiplexer ..	.25	.15	.12

## 74C Series

\*Web Code: RAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
44222	+	74C00N	DIP-14	Quad 2-input pos. NAND gate .....	\$1.15	\$ .95	\$ .69
44231	+	74C04N	DIP-14	Hex inverter (CD4069) .....	1.15	.95	.69
44257	+	74C14N	DIP-14	Hex schmitt-trigger inverter (CD40106) ..	.59	.49	.39
44361	+	74C221N	DIP-16	Dual monostable multivibrator .....	3.75	3.15	2.49
44396	+	74C373N	DIP-20	Octal D-type transparent latch .....	2.95	2.49	2.15
44409	+	74C374N	DIP-20	Octal D-type flip-flop .....	1.95	1.75	1.49
44521	+	74C912N	DIP-28	6-digit BCD display controller/driver ..	4.95	4.49	3.95
44564	+	74C922N	DIP-18	16-key keyboard encoder .....	5.49	5.25	4.95
871869	FSC	MM74C922N	DIP-18	16-key keyboard encoder .....	5.95	5.49	5.25
44572	+	74C923N	DIP-20	20-key keyboard encoder .....	4.95	4.25	3.95
44599	+	74C926N	DIP-18	4-digit counter w/ 7-seg. output driver ..	8.75	7.95	7.75

## 74F Series

Please Note: Manufacturer may vary

\*Web Code: CEN

Part No.	Product No.	Pkg.	Description	1	10	100
286993	74F02N	DIP-14	Quad 2-input pos. NOR gate .....	\$ .29	\$ .25	\$ .22
287005	74F04N	DIP-14	Hex inverter .....	.35	.29	.25
287013	74F08N	DIP-14	Quad 2-input pos. AND gate .....	.25	.22	.19

Continued on next page

\*FSC = Fairchild Semiconductor | TI = Texas Instruments | + Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# 74F, 74HC & HCT Series



## 74F Series (Continued)

Please Note: Manufacturer may vary

★ Web Code: CEN

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
44652	74F10N	DIP-14	Triple 3-input pos. NAND gate .....	\$ .35	\$ .29	\$ .25
287654	74F14D	SOIC-14	Hex schmitt trigger inverter .....	.25	.22	.19
287021	74F14N	DIP-14	Hex schmitt trigger inverter .....	.25	.22	.19
245121	74F30N	DIP-14	8-input NAND gate .....	.35	.29	.25
287638	74F32D	SOIC-14	Quad 2-input pos. OR gate .....	.25	.17	.15
287048	74F32N	DIP-14	Quad 2-input pos. OR gate .....	.35	.29	.25
245139	74F38N	DIP-14	Quad 2-input NAND buffer .....	.29	.25	.22
287620	74F74D	SOIC-14	Dual D-type flip-flop .....	.25	.17	.15
287056	74F74N	DIP-14	Dual D-type flip-flop .....	.25	.22	.19
287611	74F86D	SOIC-14	Quad 2-input exclusive OR gate .....	.35	.29	.25
287064	74F86N	DIP-14	Quad 2-input exclusive OR gate .....	.35	.29	.25
287566	74F138D	SOIC-16	3-to-8 line decoder/demultiplexer .....	.25	.17	.15
287072	74F138N	DIP-16	3-to-8 line decoder/demultiplexer .....	.29	.25	.22
287081	74F139N	DIP-16	Dual 2-to-4 decoder/demultiplexer .....	.29	.25	.22
245163	74F148N	DIP-16	8-to-3 line priority encoder .....	.29	.25	.22
245171	74F157AN	DIP-16	Quad 2-to-1 line data selector .....	.29	.25	.22
282731	74F174N	DIP-16	Hex D-type flip-flop with clear .....	.29	.25	.22
287540	74F244D	SOIC-20	Tri-state octal buffer/line driver .....	.29	.25	.22
287144	74F245N	DIP-20	Tri-state octal bus transceiver .....	.35	.29	.25
283557	74F257D	SOIC-16	Quad 2-to-1 data selector/multiplexer .....	.29	.25	.22
287099	74F273N	DIP-20	Octal D-type flip-flop .....	.45	.39	.35
287494	74F373D	SOIC-20	Octal D-type transparent latch .....	.45	.39	.35
282642	74F573N	DIP-20	3-state octal D-type transparent latch .....	.25	.15	.12
287216	74F574N	DIP-20	Tri-state octal D-type flip-flop .....	.49	.39	.35
287460	74F574D	SOIC-20	Tri-state octal D-type flip-flop .....	.49	.39	.35

## 74HC Series

★ Web Code: SDJ

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
906291	NXP	74HC00D-T	SOIC-14	Quad 2-input pos. NAND gate .....	*	\$ .09	\$ .07
45161	+	74HC00N	DIP-14	Quad 2-input pos. NAND gate .....	.25	.22	.19
906339	NXP	74HC00N	DIP-14	Quad 2-input pos. NAND gate .....	.29	.25	.22
835219	TI	SN74HC00N	DIP-14	Quad 2-input pos. NAND gate .....	.35	.29	.19
45188	+	74HC02N	DIP-14	Quad 2-input pos. NOR gate .....	.29	.25	.22
906531	NXP	74HC04D-T	SOIC-14	Hex inverter .....	*	.09	.07
45209	+	74HC04N	DIP-14	Hex inverter .....	.29	.25	.22
250982	TI	SN74HC04N	DIP-14	Hex inverter .....	.32	.27	.23
835235	TI	SN74HC04N	DIP-14	Hex inverter .....	.35	.29	.25
906574	NXP	74HC04N	DIP-14	Hex inverter .....	.35	.29	.25
906611	NXP	74HC08D-T	SOIC-14	Quad 2-input pos. AND gate .....	*	.09	.07
45225	+	74HC08N	DIP-14	Quad 2-input pos. AND gate .....	.29	.25	.22
45364	+	74HC14N	DIP-14	Hex schmitt-trigger inverter .....	.29	.25	.22
251045	TI	SN74HC14N	DIP-14	Hex schmitt-trigger inverter .....	.32	.27	.23
835340	TI	SN74HC14N	DIP-14	Hex schmitt-trigger inverter .....	.35	.29	.25
907411	NXP	74HC14N	DIP-14	Hex schmitt-trigger inverter .....	.35	.29	.25
45583	+	74HC20N	DIP-14	Dual 4-input NAND gate .....	.29	.25	.19
915841	TI	SN74HC27DR	SOIC-14	Triple 3-input pos. NOR gate .....	*	.09	.08
908799	NXP	74HC32D-T	SOIC-14	Quad 2-input pos. OR gate .....	*	.09	.07
45794	+	74HC32N	DIP-14	Quad 2-input pos. OR gate .....	.29	.25	.22
251088	TI	SN74HC32N	DIP-14	Quad 2-input pos. OR gate .....	.35	.29	.25
46130	+	74HC74N	DIP-14	Dual D-type flip-flop .....	.29	.25	.22
251097	TI	SN74HC74NE4	DIP-14	Dual D-type flip-flop .....	.35	.29	.22
46156	+	74HC75N	DIP-16	4-bit bi-stable latch .....	.35	.29	.25
46181	+	74HC86N	DIP-14	Quad 2-input exclusive OR gate .....	.25	.22	.19
45292	+	74HC123N	DIP-16	Dual monostable multivibrator .....	.29	.25	.22
45305	+	74HC125N	DIP-14	Tri-state quad bus buffer .....	.25	.19	.17
380146	TI	SN74HC132PW	TSSOP-14	Quad 2-input NAND schmitt trigger .....	.25	.15	.09
45321	+	74HC132N	DIP-14	Quad 2-input NAND schmitt trigger .....	.35	.29	.25
86182	+	74HC138D	SOIC-16	3-to-8 line decoder/demultiplexer .....	.25	.15	.12
45330	+	74HC138N	DIP-16	3-to-8 line decoder/demultiplexer .....	.35	.29	.25
45401	+	74HC154N	DIP-24	4-to-16 line decoder (0.3" wide) .....	.79	.69	.59
111739	+	74HC154N	DIP-24	4-to-16 line decoder (0.6" wide) .....	.49	.39	.35
45487	+	74HC164N	DIP-14	8-bit serial shift register .....	.25	.22	.19
251328	TI	SN74HC164N	DIP-14	8-bit serial shift register .....	.29	.25	.22

## 74HC Series (Continued)

★ Web Code: SDJ

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
45495	+	74HC165N	DIP-16	8-bit parallel load shift register .....	\$ .25	\$ .22	\$ .19
251336	TI	SN74HC165N	DIP-16	8-bit parallel load shift register .....	.35	.29	.25
380437	TI	SN74HC174PW	TSSOP-16	Hex D-type flip-flop with clear .....	.25	.15	.12
45541	+	74HC192N	DIP-16	Synch. 4-bit up/down decade counter .....	1.49	1.39	1.25
915551	TI	SN74HC244PWR	TSSOP-20	Tri-state octal buffer/line driver .....	*	.15	.12
45655	+	74HC244N	DIP-20	Tri-state octal buffer/line driver .....	.25	.22	.19
908220	NXP	74HC244N	DIP-20	Tri-state octal buffer/line driver .....	.39	.35	.29
45671	+	74HC245N	DIP-20	Tri-state octal bus transceiver .....	.25	.22	.19
45719	+	74HC257N	DIP-16	Quad 2-to-1 data selector/multiplexer .....	.25	.19	.17
45743	+	74HC273N	DIP-20	Octal D-type flip-flop .....	.35	.29	.25
45831	+	74HC373N	DIP-20	Octal D-type transparent latch .....	.35	.29	.25
251475	TI	SN74HC373N	DIP-20	Octal D-type transparent latch .....	.39	.35	.29
86254	+	74HC374D	SOIC-20	Octal D-type flip-flop .....	.25	.19	.15
45858	+	74HC374N	DIP-20	Octal D-type flip-flop .....	.25	.22	.19
251483	TI	SN74HC374N	DIP-20	Octal D-type flip-flop .....	.39	.35	.29
380998	+	74HC540T	TSSOP-20	Tri-state octal buffer/line driver .....	.25	.17	.15
109760	+	74HC540N	DIP-20	Tri-state octal buffer/line driver .....	.39	.35	.29
381000	TI	SN74HC541PW	TSSOP-20	Tri-state octal buffer/line driver .....	.25	.15	.12
46050	+	74HC541N	DIP-20	Tri-state octal buffer/line driver .....	.25	.22	.19
46076	+	74HC573N	DIP-20	3-st. octal D-type transparent latch .....	.29	.25	.22
46084	+	74HC574N	DIP-20	Tri-state octal D-type flip-flop .....	.35	.29	.22
46105	+	74HC595N	DIP-16	8-bit shift register w/ output latch .....	.35	.29	.25
911189	NXP	74HC595N	DIP-16	8-bit shift register w/ output latch .....	.35	.29	.25
251643	TI	SN74HC595N	DIP-16	8-bit shift register w/ output latch .....	.45	.39	.35
46113	+	74HC688N	DIP-20	8-bit identity comparator .....	.49	.45	.39
45891	+	74HC4017N	DIP-16	Hi speed decade counter/divider .....	.39	.35	.29
88102	+	74HC4051N	DIP-16	8-channel analog multiplexer .....	.25	.22	.19
272129	+	74HC4053N	DIP-16	Triple 2-ch analog multiplexer .....	.29	.25	.22
45971	+	74HC4066N	DIP-14	Quad bilateral analog switch .....	.35	.29	.25
252566	TI	CD74HC4316M	SOIC-16	High speed quad analog switch .....	.29	.25	.22
822303	TI	CD74HC4511E	DIP-16	BCD-to-7 seg. latch/decoder/driver .....	.65	.55	.45
251820	TI	CD74HC4514E	DIP-20	4-bit latch 4-16 line decoder .....	1.49	1.25	1.09
46017	+	74HC4538N	DIP-16	Dual retriggerable multivibrator .....	*	.09	.08

## 74HCT Series

Please Note: Manufacturer may vary

★ Web Code: SAG

Part No.	Product No.	Pkg.	Description	* Order in multiples of 10		
				1	10	100
246027	74HCT00M	SOIC-14	Quad 2-input pos. NAND gate .....	*	\$ .09	\$ .07
44871	74HCT00N	DIP-14	Quad 2-input pos. NAND gate .....	.25	.19	.15
44898	74HCT04N	DIP-14	Hex inverter .....	.25	.19	.17
63765	74HCT05N	DIP-14	Hex inverter (O.C.) .....	.29	.25	.22
44901	74HCT08N	DIP-14	Quad 2-input pos. AND gate .....	.29	.25	.22
618046	74HCT10N	DIP-14	Triple 3-input pos. NAND gate .....	.25	.22	.19
912296	74HCT14D-T	SOIC-14	Hex schmitt-trigger inverter .....	*	.09	.07
246377	SN74HCT14D	SOIC-14	Hex schmitt-trigger inverter .....	*	.09	.07
44935	74HCT14N	DIP-14	Hex schmitt-trigger inverter .....	.25	.22	.19
45137	74HCT74N	DIP-14	Dual D-type flip-flop .....	.25	.22	.19
45145	74HCT86N	DIP-14	Quad 2-input exclusive OR gate .....	.29	.25	.22
44927	74HCT138N	DIP-16	3-to-8 decoder/demultiplexer .....	.29	.25	.22
381253	SN74HCT240PW	TSSOP-20	Octal buffer/line driver .....	*	.15	.12
45022	74HCT244N	DIP-20	Tri-state octal buffer/line driver .....	.25	.22	.19
45031	74HCT245N	DIP-20	Tri-state octal bus transceiver .....	.29	.25	.22
45065	74HCT373N	DIP-20	Octal D-type transparent latch .....	.29	.25	.22
45073	74HCT374N	DIP-20	Octal D-type flip-flop .....	.35	.29	.25
99303	74HCT541N	DIP-20	Tri-state octal buffer/line driver .....	*	.12	.09
45090	74HCT573N	DIP-20	3-st. octal D-type transparent latch .....	.39	.35	.29

## IC Test Clip Series

Part No.	Product No.	Description	1	10
22104	JTC16	16-pin (for 8, 14 and 16-pin ICs) .....	\$5.95	\$4.95
22120	JTC20	20-pin (for 18 and 20-pin ICs) .....	5.95	4.95
22162	JTC28	28-pin (for 24 and 28-pin ICs) .....	6.95	6.25
22190	JTC40	40-pin (for 32 and 40-pin ICs) .....	7.95	6.95

\* NXP = NXP/Philip Semiconductor | TI = Texas Instruments | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## 74LS Series

\*Web Code: NBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
46252	+	74LS00N**	DIP-14	Quad 2-input pos. NAND gate .....	\$ .39	\$ .29	\$ .25
46253	+	74LS00N	DIP-14	Quad 2-input pos. NAND gate .....	.45	.35	.29
283725	TI	SN74LS00N	DIP-14	Quad 2-input pos. NAND gate .....	.45	.35	.29
46287	+	74LS02N**	DIP-14	Quad 2-input pos. NOR gate .....	.39	.29	.25
283741	TI	SN74LS02N	DIP-14	Quad 2-input pos. NOR gate .....	.45	.35	.29
283784	TI	SN74LS03N	DIP-14	Quad 2-input pos. NAND gate (O.C.) .....	.69	.49	.45
46316	+	74LS04N**	DIP-14	Hex inverter .....	.39	.29	.25
283792	TI	SN74LS04N	DIP-14	Hex inverter .....	.45	.35	.29
46318	+	74LS04N	DIP-14	Hex inverter .....	.45	.35	.29
916941	+	SN74LS05DR	SOIC-14	Hex inverter (O.C.) .....	.29	.25	.19
46341	+	74LS05N*	DIP-14	Hex inverter (O.C.) .....	.45	.35	.29
46359	+	74LS06N	DIP-14	Hex inverter buffer/driver .....	.75	.65	.55
46367	+	74LS07N	DIP-14	Hex buffer/driver .....	.75	.65	.55
46375	+	74LS08N**	DIP-14	Quad 2-input pos. AND gate .....	.39	.29	.25
295401	TI	SN74LS08N	DIP-14	Quad 2-input pos. AND gate .....	.45	.35	.29
46391	+	74LS09N	DIP-14	Quad 2-input pos. AND gate (O.C.) .....	.45	.35	.29
46404	+	74LS10N*	DIP-14	Triple 3-input pos. NAND gate .....	.55	.39	.35
46439	+	74LS11N*	DIP-14	Triple 3-input pos. AND gate .....	.55	.39	.35
46460	+	74LS14N*	DIP-14	Hex schmitt-trigger inverter .....	.39	.29	.25
295460	TI	SN74LS14N	DIP-14	Hex schmitt-trigger inverter .....	.45	.35	.29
47095	+	74LS20N*	DIP-14	Dual 4-input NAND gate .....	.59	.49	.39
295478	TI	SN74LS20N	DIP-14	Dual 4-input NAND gate .....	.65	.55	.45
47108	+	74LS21N	DIP-14	Dual 4-input AND gate .....	.49	.39	.29
47378	+	74LS27N	DIP-14	Triple 3-input NOR gate .....	.59	.49	.39
47458	+	74LS30N*	DIP-14	8-input NAND gate .....	.29	.25	.22
47466	+	74LS32N**	DIP-14	Quad 2-input pos. OR gate .....	.35	.25	.22
295515	TI	SN74LS32N	DIP-14	Quad 2-input pos. OR gate .....	.39	.29	.25
47467	+	74LS32N	DIP-14	Quad 2-input pos. OR gate .....	.39	.29	.25
295558	TI	SN74LS37N	DIP-14	Quad 2-input pos. NAND buffer .....	.65	.55	.45
47773	+	74LS42N	DIP-14	4 line BCD to 10 line decimal decoder .....	.85	.75	.65
47790	+	74LS47N*	DIP-16	BCD-to-7 seg. decoder/driver .....	1.09	.89	.79
295582	TI	SN74LS47N	DIP-16	BCD-to-7 seg. decoder/driver .....	1.19	.99	.89
47811	+	74LS48N	DIP-16	BCD-to-7 seg. decoder/driver .....	3.95	3.49	2.95
47992	+	74LS73N*	DIP-14	Dual J-K neg-edge-triggered flip-flop ...	1.09	.95	.75
48004	+	74LS74N**	DIP-14	Dual D-type flip-flop .....	.35	.25	.22
295726	TI	SN74LS74AN	DIP-14	Dual D-type flip-flop .....	.39	.29	.25
48021	+	74LS75N*	DIP-16	4-bit bi-stable latch .....	1.15	.95	.79
295734	TI	SN74LS75N	DIP-16	4-bit bi-stable latch .....	1.25	1.05	.85
48039	+	74LS76N	DIP-16	Dual J-K pos-edge-triggered flip-flop ..	1.29	1.19	1.09
48063	+	74LS83N	DIP-16	4-bit binary full adder .....	2.19	1.99	1.79
48071	+	74LS85N*	DIP-16	4-bit magnitude comparator .....	.79	.69	.59
295742	TI	SN74LS85N	DIP-16	4-bit magnitude comparator .....	.89	.79	.65
48098	+	74LS86N*	DIP-14	Quad 2-input exclusive OR gate ....	.35	.25	.22
295751	TI	SN74LS86N	DIP-14	Quad 2-input exclusive OR gate ....	.39	.35	.25
48119	+	74LS90N*	DIP-14	Asynchronous decade counter ....	1.25	1.15	.85
295769	TI	SN74LS90N	DIP-14	Asynchronous decade counter ....	1.35	1.25	.95
48143	+	74LS92N	DIP-14	Divide-by-12 decade counter .....	1.49	1.29	1.09
48151	+	74LS93N*	DIP-14	4-bit binary counter .....	1.25	1.05	.79
295822	TI	SN74LS93N	DIP-14	4-bit binary counter .....	1.35	1.15	.89
46412	+	74LS107N	DIP-14	Dual J-K flip-flop with clear .....	1.05	.89	.69
46421	+	74LS109N	DIP-16	Dual J-K bar flip-flop .....	.85	.75	.65
46447	+	74LS112N	DIP-16	Dual J-K neg-edge-triggered flip-flop ..	.55	.45	.35
46471	+	74LS122N	DIP-14	Retriggerable monostable multivibrator ..	.69	.59	.49
46480	+	74LS123N*	DIP-16	Dual monostable multivibrator .....	.55	.45	.35
300880	TI	SN74LS123N	DIP-16	Dual monostable multivibrator .....	.59	.49	.39
46501	+	74LS125N*	DIP-14	Tri-state quad bus buffer .....	.55	.45	.35
46527	+	74LS126N	DIP-14	Tri-state quad bus buffer .....	.55	.45	.35
46551	+	74LS132N	DIP-14	Quad 2-input NAND schmitt trigger .....	.59	.49	.39

\*10 pcs./ \*\*20 pcs. in 74LS series IC cabinet kit, right

## 74LS Series (Continued)

\*Web Code: NBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
46586	+	74LS136N	DIP-14	Quad 2-input exclusive OR gate ..	\$ .69	\$ .59	\$ .49
46607	+	74LS138N**	DIP-16	3-to-8 decoder/demultiplexer .....	.49	.39	.29
301233	TI	SN74LS138N	DIP-16	3-to-8 decoder/demultiplexer .....	.55	.45	.35
46608	+	74LS138N	DIP-16	3-to-8 decoder/demultiplexer .....	.55	.45	.35
46623	+	74LS139N*	DIP-16	Dual 2-to-4 decoder/demultiplexer ..	.49	.39	.29
301268	TI	SN74LS139AN	DIP-16	Dual 2-to-4 decoder/demultiplexer ..	.55	.45	.35
46666	+	74LS145N	DIP-16	BCD-to-decimal decoder/driver ....	.59	.49	.39
301276	TI	SN74LS145N	DIP-16	BCD-to-decimal decoder/driver ....	.65	.55	.45
46682	+	74LS148N	DIP-16	8-to-3 line priority encoder .....	.95	.85	.75
46703	+	74LS151N*	DIP-16	1-to-8 data selector/multiplexer ....	.65	.55	.45
46720	+	74LS153N	DIP-16	Dual 4-to-1 data selector/multiplexer ..	.65	.55	.45
46738	+	74LS154N	DIP-24	4-to-16 line decoder/demultiplexer ..	4.95	4.75	4.25
46754	+	74LS155N*	DIP-16	Dual 2-to-4 line decoder/demultiplexer ..	.85	.75	.65
815816	TI	SN74LS156N	DIP-16	Dual 2-to-4 line decoder/demux. (O.C.) ..	.75	.65	.45
46771	+	74LS157N*	DIP-16	Quad 2-to-1 line data selector .....	.49	.39	.29
46800	+	74LS160N	DIP-16	Synchronous decade counter .....	2.49	2.25	2.05
46818	+	74LS161N	DIP-16	4-bit synchronous binary counter .....	.55	.45	.35
301647	TI	SN74LS161AN	DIP-16	4-bit synchronous binary counter .....	.59	.49	.39
46842	+	74LS163N	DIP-16	Synchronous 4-bit binary counter .....	.59	.49	.39
46851	+	74LS164N	DIP-14	8-bit serial shift register .....	.55	.45	.35
46877	+	74LS165N	DIP-16	8-bit parallel load shift register .....	.55	.45	.35
46885	+	74LS166N	DIP-16	Serial-out shift register .....	.65	.55	.45
46906	+	74LS169N	DIP-16	Synch. 4-bit binary up/down counter ..	.99	.89	.79
46922	+	74LS173N	DIP-16	4-bit D-type register w/ 3-state output ..	.89	.79	.69
46931	+	74LS174N*	DIP-16	Hex D-type flip-flop with clear .....	.69	.59	.49
46957	+	74LS175N*	DIP-16	Quad D-type flip-flop with clear ....	.59	.49	.39
46973	+	74LS181N	DIP-24	Arithmetic logic unit/function generator ..	2.95	2.75	2.49
46990	+	74LS190N	DIP-16	Synchronous up/down decade counter ..	2.95	2.75	2.49
47001	+	74LS191N	DIP-16	Synch. 4-bit up/down binary counter ..	.65	.55	.45
47010	+	74LS192N	DIP-16	Synch. 4-bit up/down decade counter ..	3.49	3.25	2.95
47036	+	74LS193N*	DIP-16	Synch. 4-bit up/down binary counter ..	.45	.39	.35
301831	TI	SN74LS193N	DIP-16	Synch. 4-bit up/down binary counter ..	.49	.45	.39
47052	+	74LS194N	DIP-16	4-bit bi-directional shift register ....	.89	.79	.69
301858	TI	SN74LS194N	DIP-16	4-bit bi-directional shift register ....	.99	.89	.75
47061	+	74LS195N	DIP-16	4-bit parallel-access shift register .....	2.05	1.95	1.75
47124	+	74LS221N	DIP-16	Dual monostable multivibrator .....	.75	.65	.55
47141	+	74LS240N*	DIP-20	Octal buffer/line driver .....	.59	.49	.39
308291	TI	SN74LS240N	DIP-20	Octal buffer/line driver .....	.65	.55	.45
47167	+	74LS241N	DIP-20	Tri-state octal buffer/line driver .....	.65	.55	.45
47183	+	74LS244N*	DIP-20	Tri-state octal buffer/line driver .....	.55	.45	.35
308312	TI	SN74LS244N	DIP-20	Tri-state octal buffer/line driver .....	.59	.49	.39
47212	+	74LS245N*	DIP-20	Tri-state octal bus transceiver .....	.65	.55	.39
308321	TI	SN74LS245N	DIP-20	Tri-state octal bus transceiver .....	.69	.59	.45
47247	+	74LS247N	DIP-16	BCD to 7-seg. decoder/driver .....	1.09	.99	.89
47327	+	74LS259N	DIP-16	8-bit addressable latch .....	.65	.55	.45
47360	+	74LS266N	DIP-14	Quad 2-input exclusive NOR gate (O.C.) ..	.65	.55	.45
47386	+	74LS273N*	DIP-20	Octal D-type flip-flop .....	.59	.49	.39
308398	TI	SN74LS273N	DIP-20	Octal D-type flip-flop .....	.65	.55	.45
47407	+	74LS279N	DIP-16	Quad S-R latch .....	.75	.65	.55
47423	+	74LS283N	DIP-16	4-bit binary full add w/ fast carry ...	.95	.85	.65

\*10 pcs./ \*\*20 pcs. in 74LS series IC cabinet kit, below

Continued on next page

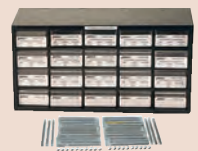
## 74LS Series IC Kit

SAVE \$72

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374  
 20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	5
84961	420 pcs. 74LS IC kit	6.7	\$149.95	\$129.95
130391	Refill for 84961 (420 pcs.)	2.0	134.95	119.95



\* TI = Texas Instruments | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# 74LS, 74S, 4000, MC14000 Series

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## 74LS Series (Continued)

\* Web Code: NBS

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
47562	+	74LS367N	DIP-16	Tri-state hex buffer .....	\$ .69	\$ .59	\$ .49
309278	TI	SN74LS368AN	DIP-16	6-bit buffer/line driver .....	.79	.69	.59
308460	TI	SN74LS373N	DIP-20	Octal D-type transparent latch .....	.59	.49	.39
47600	+	74LS373N*	DIP-20	Octal D-type transparent latch .....	.55	.45	.35
308478	TI	SN74LS374N	DIP-20	Octal D-type flip-flop .....	.59	.49	.39
47634	+	74LS374N*	DIP-20	Octal D-type flip-flop .....	.55	.45	.35
1944311	+	74LS375N	DIP-16	4-bit bistable latch .....	.75	.65	.45
47669	+	74LS377N	DIP-20	Octal D-type flip-flop .....	.85	.75	.65
47722	+	74LS390N	DIP-16	Dual 4-bit decade counter .....	.95	.85	.75
47731	+	74LS393N	DIP-14	Dual 4-bit binary counter .....	.75	.65	.55
47861	+	74LS540N	DIP-20	Tri-state octal buffer/line driver .....	.89	.79	.69
47870	+	74LS541N	DIP-20	Tri-state octal buffer/line driver .....	.75	.65	.55
103974	+	74LS595N	DIP-16	8-bit shift register with output latch .....	4.95	4.49	3.95
47950	+	74LS645N	DIP-20	Tri-state octal bus transceiver .....	1.09	.89	.79
47984	+	74LS688N	DIP-20	8-bit identity comparator .....	1.25	1.05	.85

\*10 pcs. in 74LS series IC cabinet kit, pg 5

## 74S Series

Please Note: Manufacturer may vary

\* Web Code: NCK

Part No.	Product No.	Pkg.	Description	1	10	100
48573	74S20N	DIP-14	Dual 4-input NAND gate .....	\$ .65	\$ .55	\$ .45
48750	74S32N	DIP-14	Quad 2-input pos. OR gate .....	.55	.45	.35
48531	74S188N	DIP-16	(32 x 8) 256-bit TTL PROM (27S18) .....	5.95	5.49	4.95
48557	74S189N	DIP-16	(16 x 4) 64-bit RAM (27S03) .....	3.95	3.75	3.49
677020	74S244N	DIP-20	Tri-state octal buffer/line driver .....	.69	.55	.45
48696	74S287N	DIP-16	(256 x 4) 1024-bit TTL PROM (TBP24S10) .....	10.95	9.95	7.95
48717	74S288N	DIP-16	(32 x 8) 256-bit TTL PROM (TBP18S030N) .....	9.95	8.95	7.95
48805	74S387N	DIP-16	(256 x 4) 1024-bit TTL PROM (TBP24SA10N) .....	3.95	3.75	3.49
52513	74S428N*	DIP-28	System controller/bus driver (8228) .....	3.95	3.75	3.49
48864	74S472N	DIP-20	(512 x 8) 4096-bit TTL PROM (TBP28S42N) .....	12.95	11.95	10.95
48910	74S571N	DIP-16	(512 x 4) 2048-bit TTL PROM (AM27S13) ...	7.95	6.95	5.95

★ Pull = Extra Savings

## 4000 Series

\* Web Code: WAA

* Order in multiples of 10					1	10	100
Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
12562	+	CD4001**	DIP-14	Quad 2-input NOR gate .....	\$ .25	\$ .22	\$ .19
675964	+	CD4002	DIP-14	Dual 4-input NOR gate .....	.29	.25	.22
12597	+	CD4007	DIP-14	Dual complimentary pair plus inverter .....	.29	.25	.22
197270	+	CD4011M	SOIC-14	Quad 2-input NAND gate .....	*	.12	.09
12634	+	CD4011**	DIP-14	Quad 2-input NAND gate .....	.25	.22	.19
893283	TI	CD4011BE	DIP-14	Quad 2-input NAND gate .....	.35	.25	.22
12677	+	CD4013**	DIP-14	Dual D-type flip-flop .....	.29	.25	.22
893443	TI	CD4013BE	DIP-14	Dual D-type flip-flop .....	.35	.25	.22
12706	+	CD4015*	DIP-16	Dual 4-stage static shift register .....	.29	.25	.22
12722	+	CD4016*	DIP-14	Quad bilateral switch .....	.29	.25	.22
197296	+	CD4017M	SOIC-16	Decade counter/divider .....	*	.12	.09
12749	+	CD4017*	DIP-16	Decade counter/divider .....	.35	.29	.25
893611	TI	CD4017BE	DIP-16	Decade counter/divider .....	.39	.35	.25
12773	+	CD4018	DIP-16	Presetable divide-by-N counter .....	.39	.35	.29
12802	+	CD4020*	DIP-16	14-stage ripple carry binary counter .....	.39	.35	.29
12829	+	CD4021	DIP-16	8-stage static shift register .....	.29	.25	.22
12845	+	CD4023*	DIP-14	Triple 3-input NAND gates .....	.29	.25	.22
12853	+	CD4024*	DIP-14	7-stage ripple carry binary counter .....	.29	.25	.22
353560	+	CD4026	DIP-16	Decade counter/divider .....	.55	.45	.39
12888	+	CD4027*	DIP-16	Dual J-K master/slave flip-flop .....	.35	.29	.25
12909	+	CD4028	DIP-16	BCD-to-decimal decoder .....	.29	.25	.22
12925	+	CD4029	DIP-16	Preset up/down binary counter .....	.35	.29	.25
12950	+	CD4040*	DIP-16	12-stage binary/ripple counter .....	.35	.29	.25
12992	+	CD4043	DIP-16	Tri-state quad NOR R/S latch .....	.39	.35	.29
13004	+	CD4044	DIP-16	Quad NAND R/S latch .....	.39	.35	.29
13012	+	CD4046*	DIP-16	Micropower phase lock loop .....	.39	.35	.29
13039	+	CD4047	DIP-14	Monostable/astable multivibrator .....	.35	.29	.25

\*10 pcs./\*\*20 pcs. in 4000 series IC cabinet kit, right

## 4000 Series (Continued)

\* Web Code: WAA

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
894331	TI	CD4047BE	DIP-14	Monostable/astable multivibrator .....	\$ .39	\$ .35	\$ .29
13055	+	CD4049**	DIP-16	Hex inverting buffer/converter .....	.29	.25	.22
13071	+	CD4050*	DIP-16	Hex non-inverting buffer/converter .....	.29	.25	.22
13098	+	CD4051*	DIP-16	Single 8-channel analog multiplexer .....	.35	.29	.25
894391	TI	CD4051BE	DIP-16	Single 8-channel analog multiplexer .....	.39	.35	.29
13119	+	CD4052	DIP-16	Dual 4-channel analog multiplexer .....	.35	.29	.25
13127	+	CD4053	DIP-16	Triple 2-channel analog multiplexer .....	.35	.29	.25
818259	TI	CD4059AE	DIP-24	Programmable divide-by-N counter .....	1.95	1.75	1.49
13151	+	CD4060	DIP-16	14-stage ripple carry binary counter .....	.29	.25	.22
13186	+	CD4066**	DIP-14	Quad bilateral switch .....	.35	.29	.25
13215	+	CD4067	DIP-24	Single 16-channel analog multiplexer .....	1.09	.99	.89
13231	+	CD4069*	DIP-14	Hex inverters (74C04) .....	.29	.25	.22
13258	+	CD4070*	DIP-14	Quad 2-input exclusive OR gate .....	.35	.29	.25
13274	+	CD4071*	DIP-14	Quad 2-input OR gate .....	.29	.25	.22
676086	+	CD4073	DIP-14	Triple 3-input AND gate .....	.29	.25	.22
676094	+	CD4075	DIP-14	Triple 3-input OR gate .....	.35	.29	.25
676107	+	CD4077	DIP-14	Quad exclusive NOR gate .....	.35	.29	.25
676115	+	CD4078	DIP-14	8-input NOR/OR gate .....	.35	.29	.25
13354	+	CD4081*	DIP-14	Dual 2-input AND gate .....	.29	.25	.22
676123	+	CD4082	DIP-14	Quad 4-input AND gate .....	.29	.25	.22
13400	+	CD4093*	DIP-14	Quad 2-input NAND schmitt trigger .....	.29	.25	.22
818902	TI	CD4093BQM96Q1	SOIC-14	Quad 2-input NAND schmitt trigger .....	.35	.25	.19
818873	TI	CD4093BE	DIP-14	Quad 2-input NAND schmitt trigger .....	.35	.29	.25
870807	FSC	CD4093BCN	DIP-14	Quad 2-input NAND schmitt trigger .....	.35	.29	.25
13426	+	CD4094	DIP-16	8-bit shift register with latch .....	.35	.29	.25
895254	TI	CD4503BE	DIP-16	Tri-state hex buffer .....	.39	.35	.29
13485	+	CD4510	DIP-16	BCD presetable up/down counter .....	.39	.35	.29
13493	+	CD4511*	DIP-16	BCD-to-7 segment latch/decoder/driver .....	.35	.29	.25
895377	TI	CD4511BE	DIP-16	BCD-to-7 segment latch/decoder/driver .....	.39	.35	.29
13522	+	CD4514	DIP-24	4-bit latch/line decoder .....	.99	.89	.69
13549	+	CD4516	DIP-16	Binary up/down counter .....	.45	.35	.29
13565	+	CD4518	DIP-16	Dual BCD up counter .....	.39	.29	.25
895481	TI	CD4518BE	DIP-16	Dual BCD up counter .....	.45	.35	.29
13581	+	CD4520	DIP-16	Dual binary up counter .....	.35	.29	.25
13602	+	CD4526	DIP-16	Binary divide-by-N counter .....	.55	.45	.39
13611	+	CD4528	DIP-16	Dual monostable multivibrator .....	.45	.39	.35
13653	+	CD4538*	DIP-16	Dual monostable multivibrator .....	.45	.35	.29
13688	+	CD4541	DIP-14	Programmable timer .....	.35	.29	.25
13696	+	CD4543*	DIP-16	BCD to 7-segment decoder driver .....	.35	.29	.25
13709	+	CD4553	DIP-16	3-digit BCD counter .....	1.75	1.59	1.45
13768	+	CD4584*	DIP-14	Hex schmitt trigger .....	.35	.29	.25
676473	+	CD40102	DIP-16	2-decade BCD 8-stage sync down counter .....	.29	.25	.22
44257	+	CD40106	DIP-14	Hex schmitt trigger .....	.59	.49	.39
785071	FSC	CD40106BCN	DIP-14	Hex schmitt trigger .....	.35	.29	.25
676502	+	CD40110	DIP-16	Decade up/down counter .....	1.25	1.05	.85

\*10 pcs./\*\*20 pcs. in 4000 series IC cabinet kit, below

## ON Semiconductor® MC14000 Series

\* Web Code: XDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
2024541	MC14013BCPG	DIP-16	Dual D-type flip-flop .....	\$ .45	\$ .39	\$ .35
792474	MC14511BCPG	DIP-16	BCD-to-7 seg latch/decoder/driver ..	.45	.39	.35
947982	MC14553BCPG	DIP-16	3-digit BCD decoder .....	1.75	1.59	1.45

## 4000 Series CMOS IC Kit

SAVE \$24

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

Part No.	Description	Wt. (lbs.)	1	5
84970	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$69.95
130403	Refill for 84970 (300 pcs.)	1.4	64.95	59.95

\* FSC = Fairchild Semiconductor | TI = Texas Instruments | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## 5000 Series & Clock Chips

\*Web Code: RAE

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
32803	+	TCM5089N	DIP-16	Touch tone generator	\$4.95	\$4.49
26091	+	MM5321N	DIP-16	TV camera synchronous generator	4.95	3.95
26171	+	MM5450N	DIP-40	LED display driver	3.95	3.75
27422	+	LM555CN*	DIP-8	Timer	.25	.19
126797	+	LMC555CN*	DIP-8	CMOS timer	.79	.69
24328	+	LM556N*	DIP-14	Dual timer	.29	.25
95531	+	RTC72421B	DIP-18	Real time clock	8.95	7.95
25101	+	MC146818*	DIP-24	Real time clock with RAM	8.95	7.95
10567	AMD	AM9513APC*	DIP-40	Real time clock	34.95	31.95

\*10 pcs./\*\*20 pcs. in Linear series IC cabinet kit, pg 16      ★ Pull = Extra Savings

\*Delay Lines Available Online — Enter Web Code EEU

\*Quick Switches Available Online — Enter Web Code FAH

\*EconoResets Available Online — Enter Web Code YFE

## 6500 Series

Please Note: Manufacturer may vary

\*Web Code: NAG

Part No.	Product No.	Pkg.	Description	1	10
43191	6502★	DIP-40	CPU, 8-bit, 1MHz	\$5.95	\$5.49
43166	65C02★	DIP-40	CPU, 8-bit, 1MHz	5.95	5.49
43254	6522★	DIP-40	Versatile interface adapter, 1MHz	5.95	5.49
43297	6532★	DIP-40	RAM I/O timer, 1MHz	7.95	7.25
43318	6551★	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.75

★ Pull = Extra Savings



## 6800/68000 CMOS

\*Web Code: SBP

Part No.	*Mfr. Part No.	Pkg.	Description	1	10
248604	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	\$9.95	\$8.95
248583	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	10.95	9.95
248647	MC68HC705C8ACFN	PLCC-44	MCU, 8-bit, 31 I/O, 4MHz	6.95	5.49
108919	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	8.95	7.95
132484	MC68HC705C8S	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	15.95	11.95
132530	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	3.49	2.35
248575	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	16.95	15.95
323213	MC68HC908GR8CP	DIP-28	MCU, 8-bit, 21 I/O, 8MHz	5.95	4.49

## 6800/68000 N-MOS

\*Web Code: PAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
43481	+	6800★	DIP-40	CPU, 8-bit, 5V, 2MHz	\$5.95	\$4.95
43502	+	6802★	DIP-40	CPU, 8-bit, 5V, 1MHz	9.95	8.95
43529	+	6803★	DIP-40	CPU, 8-bit, 5V, 1MHz	6.95	5.95
43537	+	6808★	DIP-40	CPU, 8-bit, 7V, 1MHz	7.95	7.25
43545	+	6809E★	DIP-40	CPU, 8-bit, 7V, 1MHz	3.95	3.49
320590	+	68B09E★	DIP-40	CPU, 8-bit, 7V, 2MHz	4.95	4.49
43561	+	6810★	DIP-24	SRAM, 1K-bit, 5V, 1MHz	2.95	2.75
43596	+	6821★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.49
43414	+	68B21★	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49
43617	+	6840★	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.95	2.75
43633	+	6850★	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	4.49	3.95
25304	+	MC68000L8★	DIP-64	CPU, 16-bit, 7V, 8MHz	8.95	7.95
25291	+	MC68000L10★	DIP-64	CPU, 16-bit, 7V, 10MHz	9.95	8.95
25355	+	MC68701★	DIP-40	MCU, 8-bit, 29 I/O, 2MHz	14.95	12.95
25363	MOT	MC68705P3S★	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95
25371	MOT	MC68705U3S★	DIP-40	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95

★ Pull = Extra Savings

## 8000 Series

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10
51844	8031★	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$3.49	\$3.25
51676	80C31★	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS	3.75	3.45

★ Pull = Extra Savings

## 8000 Series (Continued)

Please Note: Manufacturer may vary

Part No.	Product No.	Pkg.	Description	1	10
876096	P80C31BH-1	DIP-40	MCU, 8-bit, 32 I/O, 16MHz, CMOS	\$3.75	\$3.45
102197	8032★	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.49
108804	80C32-1★	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS	4.25	3.75
51861	8035★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.49
51959	8039★	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	3.95	3.49
51692	80C39★	DIP-40	MCU, 8-bit, 27 I/O, 11MHz, CMOS	4.25	3.75
51983	8049★	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	2.95	2.75
51991	8051AP★**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	4.95	4.49
125647	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz, CMOS	33.95	31.95
52046	8080A★	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	5.49	4.95
52062	8085AH★	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	4.95	4.49
52071	8085AH-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.49	4.95
51705	80C85A-2★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz, CMOS	5.95	5.49
52100	8086-2★	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75
52142	8088★	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.95	2.75
52169	8088-2★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	3.95	3.49
34358	UPD70108-8★	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	9.95	8.95
52290	8155★	DIP-40	I/O port timer, 2K-bit, 3MHz	3.95	3.49
52302	8155-2★	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	4.95	4.49
52193	81C55★	DIP-40	I/O port timer, 2K-bit, 3MHz, CMOS	4.95	4.49
52468	8212★	DIP-24	I/O port timer, 8-bit, 3MHz	5.95	5.49
52484	8216	DIP-16	Bi-directional bus driver (non-invert.)	3.95	3.49
52492	8224★	DIP-16	Clock generator/driver	3.95	3.49
52513	8228★	DIP-28	System controller/bus driver	3.95	3.75
52581	8243★	DIP-24	I/O expander, 5V, MIL. temp	5.49	4.95
52644	8251★	DIP-28	USART	2.75	2.49
52652	8251A★	DIP-28	Prog. communications interface	3.95	3.49
52370	82C51A★	DIP-28	USART, 3V to 6V, CMOS	3.95	3.49
52679	8253★	DIP-24	Prog. interval timer, 2MHz	2.95	2.75
52687	8253-5★	DIP-24	Prog. interval timer, 2MHz	3.49	3.25
52388	82C53-5★	DIP-24	Prog. interval timer, 8MHz, CMOS	3.75	3.49
52708	8254★	DIP-24	Prog. interval timer, 8MHz	4.49	3.95
52716	8254-2★	DIP-24	Prog. interval timer, 10MHz	4.95	4.49
52396	82C54★	DIP-24	Prog. interval timer, 8MHz, CMOS	4.95	4.49
52409	82C54-2★	DIP-24	Prog. interval timer, 10MHz, CMOS	4.95	4.49
52724	8255★	DIP-40	CPU peripheral, 2MHz	4.49	3.95
52732	8255A-5★	DIP-40	CPU peripheral, 5MHz	4.75	4.25
291805	8255AC-5★	DIP-40	CPU peripheral, 4MHz	4.75	4.25
52417	82C55A★	DIP-40	CPU peripheral, 8MHz, CMOS	4.95	4.49
52425	82C55A-5★	DIP-40	CPU peripheral, 5MHz, CMOS	4.95	4.49
52759	8256★	DIP-40	Multi func. µproc. support controller	17.95	15.95
52775	8259★	DIP-28	Prog. interrupt controller	1.95	1.75
52839	8279★	DIP-40	CPU peripheral, 5MHz	10.95	9.95
52847	8279-5★	DIP-40	CPU peripheral, 5MHz	12.95	11.95
52855	8282★	DIP-20	Octal latch bus driver	4.95	4.49
52871	8284A★	DIP-18	Clock generator/driver, 8MHz	4.95	4.49
2082020	N8284A	DIP-18	Up/down counter	2.95	1.95
52898	8286★	DIP-20	Octal bus transceiver	4.95	4.49
52901	8287★	DIP-20	Octal bus transceiver	9.95	8.95
52919	8288	DIP-20	Bus controller (UPD71088)	1.95	1.75
53014	8742★	DIP-40	MCU, 8-bit, 18 I/O, 12MHz	8.95	7.95
53022	8748★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	10.95	9.95
53031	8748H★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	12.95	11.95
53057	8749H★	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	15.95	14.95
53073	8751	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	12.95	10.95
53081	8751H★	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	15.95	14.95
52978	87C51★	DIP-40	MCU, 8-bit, 32 I/O, 33MHz, CMOS	15.95	14.95
196120	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz, CMOS	4.95	4.49
53090	8755	DIP-40	EPROM with I/O	6.95	4.95

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM      ★ Pull = Extra Savings      ✦ Refurbished = Backed by Jameco

\* AMD = Advanced Micro | MOT = Motorola | + Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Z80, UARTs & EPROMs

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Z80 MPUs

Please Note: Manufacturer may vary

★ Web Code: JAF

Part No.	Product No.	Pkg.	Description	1	10
35561	Z80★	DIP-40	2.5MHz CPU (MK3880N/780C) .....	\$1.95	\$1.75
35596	Z80A★	DIP-40	4MHz CPU (MK3880N-4/780C-1) .....	2.05	1.85
35609	Z80A-CTC★	DIP-28	4MHz counter timer circuit (MK3882-4) .....	2.49	2.25
35625	Z80A-DART★	DIP-40	4MHz dual asynchronous receiver/trans .....	2.49	2.25
35641	Z80A-PIO★	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4) .....	2.05	1.85
35668	Z80A-SIO/O★	DIP-40	4MHz serial I/O, Tx/CB & Rx/CB bond. (MK3884-4) .....	2.49	2.25
35705	Z80B★	DIP-40	6MHz CPU (MK3880N-6) .....	2.49	2.25
35781	Z84C00-4★	DIP-40	4MHz CPU (Z84C0004PEC) CMOS .....	4.49	3.95
35799	Z8530★	DIP-40	2MHz serial communications controller .....	.75	.49
280479	Z8S18020PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC .....	9.95	8.95
280516	Z84C0008PEC★	DIP-40	Z80 CPU with 3 mode int., 16 regs. ....	4.49	3.95
61786	Z85C3008PS★	DIP-40	Serial communications controller .....	4.95	4.49
281308	Z85C3016PSC	DIP-40	Serial communications controller .....	7.95	6.95
280436	Z8018008PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC .....	4.95	4.49
280452	Z8018010PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC .....	6.95	5.75
281324	Z8523016VSC	PLCC-44	Enhanced serial communications controller	11.95	10.95

★ Pull = Extra Savings

## UARTs

Please Note: Manufacturer may vary

★ Web Code: MAG

Part No.	Product No.	Pkg.	Description	1	10
43158	6402★	DIP-40	5V CMOS .....	\$6.95	\$5.95
27570	NS16C450N★	DIP-40	Asynch. comm. element, 5V .....	2.95	2.75
27596	NS16550AN★	DIP-40	Asynch. comm. element, 5V .....	4.95	4.49
288809	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V .....	3.95	3.49
288841	TL16C554FN	PLCC-68	4-channel w/ 16-byte FIFO, 5V .....	8.95	6.95
288876	TL16C750FN	PLCC-44	1-channel w/ 64-byte FIFO, 5V .....	4.95	4.49
288905	TL16C754FN	PLCC-68	4-channel w/ 64-byte FIFO, 5V .....	11.95	9.95

★ Pull = Extra Savings

## EPROMs

★ Web Code: XAF

Part No.	*Mfr.	Product No.	Pkg.†	Config.	Description	1	10	100
39909	♦	2708♦	DIP-24	1k x 8	450ns, 5V .....	\$3.95	\$3.75	\$3.49
39706	♦	27C16♦	DIP-24	2k x 8	450ns, 5V .....	4.95	3.95	—
33611	♦	TMS2716♦	DIP-24	2k x 8	450ns, 5V .....	2.95	2.75	2.49
40002	♦	2716♦	DIP-24	2k x 8	450ns, 5V .....	3.95	3.75	3.49
308662	♦	2716A-2	DIP-24	2k x 8	200ns, 5V .....	3.95	3.75	3.49
40011	♦	2716-1♦	DIP-24	2k x 8	350ns, 5V .....	4.49	3.95	3.75
33591	♦	TMS2532♦	DIP-24	4k x 8	450ns, 5V .....	3.95	3.75	3.49
40096	♦	2732♦	DIP-24	4k x 8	450ns, 5V .....	5.95	5.49	3.95
40133	♦	2732A-45♦	DIP-24	4k x 8	450ns, 5V .....	3.95	3.75	3.49
40125	♦	2732A-25♦	DIP-24	4k x 8	250ns, 5V .....	4.95	4.49	3.95
114876	♦	2732B♦	DIP-24	4k x 8	450ns, 5V .....	3.95	3.75	3.49
40109	♦	2732A-20♦	DIP-24	4k x 8	200ns, 5V .....	5.49	4.95	4.49
266001	♦	27C32-150♦	DIP-24	4k x 8	150ns, 5V .....	5.95	5.49	4.95
40205	♦	2764-25♦	DIP-28	8k x 8	250ns, 5V .....	3.95	3.75	3.49
40192	♦	2764-20♦	DIP-28	8k x 8	200ns, 5V .....	4.25	3.95	3.75
40248	♦	2764A-25♦	DIP-28	8k x 8	250ns, 5V .....	3.95	3.75	3.49
40230	♦	2764A-20♦	DIP-28	8k x 8	200ns, 5V .....	4.25	3.95	3.75
698322	ST	M27C64A-15F1	FDIP-28	8k x 8	150ns, 5V (±10%) .....	5.25	4.75	4.49
39845	♦	27C64-25♦	DIP-28	8k x 8	250ns, 5V .....	3.49	3.25	2.95
74608	♦	27C64-20♦	DIP-28	8k x 8	200ns, 5V .....	3.75	3.49	3.25
39829	♦	27C64-15♦	DIP-28	8k x 8	150ns, 5V .....	4.25	3.95	3.75
105304	♦	27C64-12♦	DIP-28	8k x 8	120ns, 5V .....	4.75	4.49	3.95
266036	♦	27C64-100	DIP-28	8k x 8	100ns, 5V .....	4.95	4.55	4.05
39933	♦	27128-25♦	DIP-28	16k x 8	250ns, 5V .....	3.95	3.75	3.49
39984	♦	27128A-25♦	DIP-28	16k x 8	250ns, 5V .....	3.95	3.75	3.49
39968	♦	27128A-20♦	DIP-28	16k x 8	200ns, 5V .....	4.25	3.95	3.55
39950	♦	27128A-15♦	DIP-28	16k x 8	150ns, 5V .....	4.49	4.25	3.95
39685	♦	27C128-25♦	DIP-28	16k x 8	250ns, 5V .....	3.75	3.49	3.25
101101	♦	27C128-20♦	DIP-28	16k x 8	200ns, 5V .....	3.95	3.75	3.49
39677	♦	27C128-15♦	DIP-28	16k x 8	150ns, 5V .....	4.25	3.95	3.75
87935	♦	27C128-12♦	DIP-28	16k x 8	120ns, 5V .....	4.49	4.25	3.95
266061	♦	27C128-10	DIP-28	16k x 8	100ns, 5V .....	4.75	4.49	4.25

♦ Refurbished = Backed by Jameco

† FDIP = Ceramic frit seal

♦ Blue P/N = Limited Qty Available

## EPROMs (Continued)

★ Web Code: XAF

Part No.	*Mfr.	Product No.	Pkg.†	Config.	Description	1	10	100
149665	♦	27C128-70	DIP-28	16k x 8	70ns, 5V .....	\$4.95	\$4.75	\$4.49
40061	♦	27256-25♦	DIP-28	32k x 8	250ns, 5V .....	2.35	2.15	1.85
40045	♦	27256-20♦	DIP-28	32k x 8	200ns, 5V .....	2.55	2.25	1.95
40037	♦	27256-15♦	DIP-28	32k x 8	150ns, 5V .....	2.75	2.49	2.25
39731	♦	27C256-25♦	DIP-28	32k x 8	250ns, 5V .....	2.35	2.15	1.85
39722	♦	27C256-20♦	DIP-28	32k x 8	200ns, 5V .....	2.55	2.25	1.95
39714	♦	27C256-15♦	DIP-28	32k x 8	150ns, 5V .....	2.75	2.49	2.25
698111	ST	M27C256B-15F1	FDIP-28	32k x 8	150ns, 5V .....	3.95	3.49	3.25
65904	♦	27C256-12♦	DIP-28	32k x 8	120ns, 5V .....	3.49	2.95	2.75
698091	ST	M27C256B-12F1	FDIP-28	32k x 8	120ns, 5V, C-temp .....	4.25	3.75	3.49
698103	ST	M27C256B-12F6	FDIP-28	32k x 8	120ns, 5V, I-temp .....	3.95	3.49	3.25
112740	♦	27C256-10♦	DIP-28	32k x 8	100ns, 5V .....	3.75	3.25	2.95
698082	ST	M27C256B-10F1	FDIP-28	32k x 8	100ns, 5V .....	4.49	3.95	3.59
140476	♦	27C256-70♦	DIP-28	32k x 8	70ns, 5V .....	4.75	4.49	3.95
266079	♦	27C256-55	DIP-28	32k x 8	55ns, 5V .....	4.95	4.75	4.49
40168	♦	27512-25♦	DIP-28	64k x 8	250ns, 5V .....	2.25	1.95	—
40150	♦	27512-20♦	DIP-28	64k x 8	200ns, 5V .....	2.49	2.25	1.95
39802	♦	27C512-25♦	DIP-28	64k x 8	250ns, 5V .....	2.25	1.95	1.75
39790	♦	27C512-20♦	DIP-28	64k x 8	200ns, 5V .....	2.49	2.25	1.95
39781	♦	27C512-15♦	DIP-28	64k x 8	150ns, 5V .....	2.75	2.49	2.25
698234	ST	M27C512-15F1	FDIP-28	64k x 8	150ns, 5V .....	3.39	3.19	2.95
39773	♦	27C512-12♦	DIP-28	64k x 8	120ns, 5V .....	2.95	2.75	2.49
698226	ST	M27C512-12F1	FDIP-28	64k x 8	120ns, 5V .....	3.49	3.25	3.05
131959	♦	27C512-10♦	DIP-28	64k x 8	100ns, 5V .....	3.25	2.95	2.75
698218	ST	M27C512-10F1	FDIP-28	64k x 8	100ns, 5V .....	3.55	3.29	3.15
175206	♦	27C512-90♦	DIP-28	64k x 8	90ns, 5V .....	3.49	3.25	2.95
698306	ST	M27C512-90F1	FDIP-28	64k x 8	90ns, 5V, C-temp .....	3.75	3.49	3.25
698314	ST	M27C512-90F6	FDIP-28	64k x 8	90ns, 5V, I-temp .....	3.75	3.49	3.25
203625	♦	27C512-70	DIP-28	64k x 8	70ns, 5V .....	3.95	3.75	3.49
203617	♦	27C512-45	DIP-28	64k x 8	45ns, 5V .....	4.25	3.95	3.75
203641	♦	27C1024-12	DIP-40	64k x 16	120ns, 5V .....	4.95	4.75	4.49
118148	♦	27C1024-15	DIP-40	64k x 16	150ns, 5V .....	4.75	4.49	4.25
39669	♦	27C010-20♦	DIP-32	128k x 8	200ns, 5V .....	3.25	2.95	2.49
39651	♦	27C010-15♦	DIP-32	128k x 8	150ns, 5V .....	3.49	3.25	2.95
697987	ST	M27C1001-15F1	FDIP-32	128k x 8	150ns, 5V .....	4.25	3.95	3.75
74624	♦	27C010-12♦	DIP-32	128k x 8	120ns, 5V .....	2.39	2.25	1.45
697961	ST	M27C1001-12F1	FDIP-32	128k x 8	120ns, 5V .....	4.49	4.25	3.95
79231	♦	27C010-10♦	DIP-32	128k x 8	100ns, 5V .....	3.95	3.75	3.49
697944	ST	M27C1001-10F1	FDIP-32	128k x 8	100ns, 5V .....	4.75	4.49	4.25
137699	♦	27C010-80♦	DIP-32	128k x 8	80ns, 5V .....	4.49	4.25	3.55
146149	♦	27C010-70♦	DIP-32	128k x 8	70ns, 5V .....	4.25	3.95	3.75
698007	ST	M27C1001-70F1	FDIP-32	128k x 8	70ns, 5V .....	4.75	4.49	4.25
266095	♦	27C010-55	DIP-32	128k x 8	55ns, 5V .....	4.95	4.75	4.49
65681	♦	27C020-20♦	DIP-32	256k x 8	200ns, 5V .....	3.49	2.95	2.49
65699	♦	27C020-15♦	DIP-32	256k x 8	150ns, 5V .....	3.75	3.49	3.25
78852	♦	27C020-12♦	DIP-32	256k x 8	120ns, 5V .....	3.95	3.75	3.49
698031	ST	M27C2001-12F1	FDIP-32	256k x 8	120ns, 5V .....	5.49	5.25	4.65
156267	♦	27C020-10	DIP-32	256k x 8	100ns, 5V .....	4.25	3.95	3.75
698023	ST	M27C2001-10F1	FDIP-32	256k x 8	100ns, 5V .....	5.95	5.49	4.95
203650	♦	27C020-80	DIP-32	256k x 8	80ns, 5V .....	4.49	4.25	—
127933	♦	27C4096-12	DIP-40	256k x 16	120ns, 5V .....	5.95	5.49	4.95
698197	ST	M27C4002-10F1	FDIP-40	256k x 16	100ns, 5V .....	7.49	6.75	6.25
85462	♦	27C040-15♦	DIP-32	512k x 8	150ns, 5V .....	4.49	4.25	3.95
698171	ST	M27C4001-15F1	FDIP-28	512k x 8	150ns, 5V .....	7.95	6.95	6.25
102293	♦	27C040-12♦	DIP-32	512k x 8	120ns, 5V .....	4.95	4.75	4.49
698154	ST	M27C4001-12F1	FDIP-28	512k x 8	120ns, 5V .....	6.19	5.75	5.49
111780	♦	27C040-10♦	DIP-32	512k x 8	100ns, 5V .....	5.49	4.95	4.49
698146	ST	M27C4001-10F1	FDIP-28	512k x 8	100ns, 5V .....	7.95	6.95	6.25
203676	♦	27C040-80	DIP-32	512k x 8	80ns, 5V .....	5.75	5.25	4.75
698189	ST	M27C4001-80XF1	FDIP-28	512k x 8	80ns, 5V (±5%) .....	7.95	6.95	6.25
266124	♦	27C040-70	DIP-32	512k x 8	70ns, 5V .....	5.95	5.49	4.95
140003	♦	27C080-12♦	DIP-32	1M x 8	120ns, 5V .....	5.95	5.49	4.95
156275	♦	27C080-10♦	DIP-32	1M x 8	100ns, 5V .....	6.95	6.49	5.95
698357	ST	M27C801-100F1	FDIP-32	1M x 8	100ns, 5V (±10%) .....	7.95	6.75	6.19

♦ Refurbished = Backed by Jameco

† FDIP = Ceramic frit seal

Continued on next page

\* ST = ST Micro | ♦ Manufacturer Varies

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.





## EPROMs (Continued)

\* Web Code: XAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
203684	+	27C080-90	DIP-32	1M x 8	90ns, 5V .....	\$7.49	\$6.75	\$6.25
265842	+	27C800-12	DIP-42	1M x 8	120ns, 5V .....	7.25	6.49	5.95
156283	+	27C160-10	DIP-42	2M x 8	100ns, 5V .....	8.95	7.95	—

## IC Accessories

\* Order in multiples of 10

Part No.	Product No.	Description	1	10
13864	CF2	Conductive foam (12" x 24" x .25") hard black .....	\$10.95	\$9.95
29516	RIC20	Thin rail anti-static IC storage tube .....	.25	.22
29583	RRS	Storage tube rubber stopper .....	*	.07

Additional Anti-static Products, IC Accessories and Tools see pages 160 - 161

## OTP/PROMs

\* Web Code: WAG

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10	100
48717	+	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM ..	\$9.95	\$8.95	\$7.95
27844	+	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM ....	5.95	4.95	3.95
27764	+	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM ..	11.95	10.95	9.95
27748	+	N82S100	DIP-28	16x48 x 8	Field prog. logic array, 3-st.	10.95	9.95	—
48696	+	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM .....	10.95	9.95	7.95
48805	+	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM .....	3.95	3.75	3.49
27772	+	N82S126	DIP-16	256 x 4	1-kbit, 5V, 50ns, PROM .....	7.95	6.95	5.95
27781	+	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM .....	10.95	9.95	8.95
27799	+	N82S131	DIP-16	512 x 4	2-kbit, 7V, 50ns, PROM .....	7.95	6.95	5.95
27801	+	N82S137	DIP-18	1k x 4	4-kbit, 7V, 60ns, PROM .....	5.95	4.95	—
27810	+	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM .....	8.95	7.95	6.95
27828	+	N82S185	DIP-18	2k x 4	8-kbit, 7V, 100ns, PROM .....	3.95	2.95	1.95
27836	+	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM.....	8.95	7.95	6.95
394978	ATM	AT72C256R-45JI	PLCC-32	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	2.75	2.49	2.25
394986	ATM	AT72C256R-45PU	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	1.25	1.15	1.05
266343	+	27C512-15	PLCC-32	64k x 8	512-kbit, 5V, 150ns, OTP .....	.89	.79	.49
395081	ATM	AT72C512R-70PU	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	1.35	1.19	1.09
203692	+	27C512-12	DIP-28	64k x 8	512-kbit, 5V, 100ns, OTP .....	1.35	1.19	1.09
394708	ATM	AT72C010-70PU	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	1.95	1.75	1.49
266811	+	27C010-55	PLCC-32	128k x 8	1-Mbit, 5V, 55ns OTP .....	1.95	1.25	—
267303	+	27C080-10	PLCC-32	1M x 8	8-Mbit, 5V, 100ns, OTP .....	4.95	3.95	—
267215	+	27C080-15	PLCC-32	1M x 8	8-Mbit, 5V, 150ns, OTP .....	3.95	2.49	—

## EEPROMs

Please Note: Manufacturer may vary

\* Web Code: GAM

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
102058	93C46	DIP-8	64 x 16	3-wire serial, 2-5V .....	\$.25	\$.22	\$.19
276955	93C46	SOIC-8	64 x 16	3-wire serial, 2-5V .....	.25	.15	.12
108855	93C56	DIP-8	128 x 16	3-wire serial, 2-5V .....	.25	.22	.19
108839	24C02P	DIP-8	256 x 8	2-wire serial, 5V .....	.29	.25	.22
200598	93C66	DIP-8	256 x 16	3-wire Serial, 2-5V .....	.25	.22	.19
108847	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V .....	.45	.39	.35
200547	24C08-10	DIP-8	1k x 8	2-wire serial, 2-5V .....	.45	.39	.35
200555	24C16-10	DIP-8	2k x 8	2-wire serial, 5V .....	.45	.39	.35
276699	28C16	SOIC-24	2k x 8	Page parallel, 5V .....	2.49	2.25	1.95
74691	28C16A-25	DIP-24	2k x 8	Page parallel, 5V .....	3.95	3.75	3.49
276701	28C17	DIP-28	2k x 8	Page parallel, 5V .....	3.95	3.75	3.49
40416	2817A-25	DIP-28	2k x 8	Page parallel, 5V .....	3.95	3.75	3.49
276752	28C64	SOIC-28	8k x 8	Page parallel, 5V .....	1.95	1.25	.95
74827	28C64A-25	DIP-28	8k x 8	Page parallel, 5V .....	3.75	3.49	3.25
40475	2865A	DIP-28	8k x 8	5V with latches .....	4.95	4.49	3.95
276816	28C256-15SC	SOIC-28	32k x 8	Page parallel, 5V .....	5.49	4.49	—
200580	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V .....	1.49	1.35	1.19
74878	28C256-25	DIP-28	32k x 8	Page parallel, 5V .....	5.95	4.49	4.95
74843	28C256-15	DIP-28	32k x 8	Page parallel, 5V .....	5.49	5.25	4.49
1474101	M9526-WMN6TP	SO-8	32k x 8	2.5-5.5V, 256-kbit serial spi bus	1.49	1.25	1.05
276832	24C512	DIP-8	64k x 8	2-wire serial, 2-5V .....	1.95	1.75	1.49
1010868	AT24C512BN-SH-B	SOIC-8	64k x 8	2-wire serial, 1.8-3.6V ....	1.75	1.45	1.15
276912	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V .....	5.95	5.49	5.25
395372	AT28LV010-20TC	TSSOP-32	128k x 8	Page parallel, 3.3V .....	29.95	26.95	—

Blue Part No. = Limited Quantity Available

## Static RAM

\* Web Code: WAF

Part No.	*Mfr.	Product No.	Pkg.	Config.	Description	1	10
38931	+	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns .....	\$1.95	\$1.75
42198	+	5101*	DIP-22	256 x 4	1-Kbit, 5V, 450ns .....	7.95	6.95
38957	+	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns .....	1.95	1.75
43238	+	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns .....	2.95	2.75
38973	+	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns .....	2.19	1.95
38981	+	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP .....	2.35	2.19
38738	+	2016-12	DIP-24	2k x 8	16-Kbit, 5V, 120ns .....	1.25	1.15
38746	+	2016-20*	DIP-24	2k x 8	16-Kbit, 5V, 200ns .....	.89	.79
114260	DAL	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV .....	10.95	9.95
25911	+	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns .....	7.95	6.95
42809	+	6116P-3*	DIP-24	2k x 8	16-Kbit, 5V, 150ns .....	1.75	1.55
42753	+	6116LP-3*	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP .....	1.85	1.65
42788	+	6116P-1*	DIP-24	2k x 8	16-Kbit, 5V, 100ns .....	1.85	1.65
42796	+	6116P-2*	DIP-24	2k x 8	16-Kbit, 5V, 120ns .....	1.49	1.25
42737	+	6116LP-1*	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP .....	1.95	1.75
242683	CPS	CY7C128A-45	DIP-24	2k x 8	16-Kbit, 5V, 45ns, Asynch. ....	2.95	2.75
242675	+	6116-70	DIP-24	2k x 8	16-Kbit, 5V, 70ns .....	2.25	1.95
392446	+	CY7C4235V-15ASC	STQFP-64	2k x 18	36-Kbit, 3.3V, 15ns, Synch. FIFO	14.95	12.95
242333	+	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns, Asynch. ....	2.49	2.25
1927473	ALM	AS6C6264-55PCN	PDIP-28	8k x 8	64K LP, 55ns, 2.7-5.5V, C-temp	2.75	2.49
392294	CPS	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns .....	1.05	.95
85121	+	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP .....	3.75	3.49
42884	+	6264LP-10*	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP .....	2.95	2.75
42921	+	6264LP-10*	DIP-28	8k x 8	64-Kbit, 5V, 100ns .....	2.75	2.49
42892	+	6264LP-12*	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP .....	2.75	2.49
42930	+	6264P-12*	DIP-28	8k x 8	64-Kbit, 5V, 120ns .....	2.49	2.25
114278	DAL	DS1225AB-15	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV .....	14.95	12.95
114307	DAL	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV .....	11.95	10.95
242376	+	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Asynch.	1.95	1.75
1927414	ALM	AS6C62256-55PCN	PDIP-28	32k x 8	256K LP, 55ns, 2.7-5.5V, C-temp	2.95	2.75
242499	DAL	DS1230Y-70	DIP-28	32k x 8	256-Kbit, 4.5V, 70ns, WP .....	17.95	15.95
177113	DAL	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV .....	12.95	11.95
114323	DAL	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV .....	11.95	10.95
41970	+	43256-10L*	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP .....	3.95	3.75
41988	+	43256-12L*	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP .....	3.75	3.49
75037	+	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns .....	2.95	2.75
82472	+	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP .....	2.75	2.49
391793	CPS	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns .....	2.95	2.75
391822	CPS	CY62256LL-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP .....	2.95	2.75
391890	CPS	CY62256LL-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP .....	1.75	1.55
42876	+	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP .....	2.65	2.45
42833	+	62256LP-10*	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP .....	2.49	2.15
42850	+	62256LP-12*	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP .....	2.25	2.05
279831	CPS	CY7C199-25VC	SOJ-28	32k x 8	256-Kbit, 5V, 25ns .....	1.75	1.49
279857	+	62256S-15	SOJ-28	32k x 8	256-Kbit, 5V, 150ns .....	1.25	.95
693935	+	M5M5258P-35	DIP-24	64k x 4	256-Kbit, 5V, 35ns .....	1.25	.85
1927799	ALM	AS7C1026B-12JCN	SOJ-44	64k x 16	1M, 12ns, 5V, C-temp .....	3.49	3.25
1927457	ALM	AS6C1008-55PCN	PDIP-32	128k x 8	1M LP, 55ns, 2.7-5.5V, C-temp	3.95	3.75
391831	CPS	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP .....	2.49	2.25
391996	CPS	CY62128BLL-70ZC	TSSOP-32	128k x 8	1-Mbit, 5V, 70ns, LP .....	2.95	2.75
131810	+	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP .....	6.95	5.95
103982	+	628128LP-85*	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP .....	4.95	4.49
1927617	ALM	AS6C4008-55PCN	PDIP-32	512k x 8	4M LP, 55ns, 2.7-5.5V, C-temp	5.95	5.49
242448	+	BS62LV4006PIP-55	PDIP-32	512k x 8	4M LP, 55ns, 2.4-5.5V, I-temp	18.95	16.95
157358	+	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP .....	17.95	15.95
280049	+	628512S-70	SOP-32	512k x 8	4-Mbit, 5V, 20ns, Asynch. ....	4.95	4.49
1862446	+	IS61WV2048BLL-10MLL	BGA-48	2M x 8	16M, 2.4-3.6V, 10ns .....	29.25	24.95
1721272	+	EP20K30ETC144-1X	TQFP-144	—	909MHz, 24576kbit .....	74.95	—

\* Pull = Extra Savings Blue Part No. = Limited Quantity Available

\* I<sup>2</sup>C SMBus Available Online — Enter Web Code SAS

\* ALM = Alliance Memory | ATM = Atmel Semiconductor | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | + Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## DRAM

Please Note: Manufacturer may vary

★ Web Code: AEN

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
41339	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R) .....	\$ .99	\$ .89	\$ .79
41662	4164-150★	DIP-16	64k x 1	150ns (MCM6665-15) .....	.99	.89	.79
41574	41464-10★	DIP-18	64k x 4	100ns (HY53C464S-10) .....	1.69	1.59	1.45
41398	41256-120★	DIP-16	256k x 1	120ns (MB81256-12) .....	.79	.69	.59
42315	514256P-80★	DIP-20	256k x 4	80ns (UPD424256-80) .....	1.49	1.35	1.19
93374	514256P-70★	DIP-20	256k x 4	70ns (TC514256P-70) .....	1.55	1.39	1.25
128688	HM514260AJ7★	SOJ-40	256k x 16	70ns .....	2.95	2.75	2.49
42219	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10) .....	1.95	1.49	1.25

★ Pull = Extra Savings

★ SDRAMs Available Online — Enter Web Code RAY

## Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
183100	Intel Pentium® II processor	400	Slot 1 .....	\$39.95	\$29.95
190060	Intel Pentium® II w/ heat sink	233	Slot 1 .....	25.95	22.95
140054	Intel Pentium MMX® processor★	200	376/PGA .....	14.95	12.95
130841	Intel Pentium® processor	166	296/PGA .....	9.95	8.95

★ Pull = Extra Savings

## Memory Modules

Please Note: Manufacturer may vary

★ Web Code: GAG

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
148460	8MBX36-60	32MB	60ns SIMM	8M x 36	72 .....	\$19.95	\$17.95
75096	P362000-XX-6	8MB	60ns SIMM	2M x 36	72 .....	10.95	9.95
130729	JEED07208	8MB	60ns SIMM EDO	2M x 32	72 .....	1.25	.95
75133	P361000-XX-6	4MB	60ns SIMM	1M x 36	72 .....	6.95	5.95

## Flash Memory

Please Note: Manufacturer may vary

★ Web Code: KAJ

Part No.	Product No.	Pkg.	Config.	Description	1	10	100
242552	29C512-12	DIP-32	64k x 8	120ns, 5V .....	\$2.95	\$2.49	—
74771	28F010-15	DIP-32	128k x 8	150ns, 5V .....	4.95	4.35	3.95
242587	29F010-120	DIP-32	128k x 8	120ns, 5V .....	2.05	1.85	1.65
242595	29F010-90	DIP-32	128k x 8	90ns, 5V .....	2.95	2.75	2.49
242608	29F010-70	DIP-32	128k x 8	70ns, 5V .....	3.25	2.95	2.75
845185	AT29C010A-90JC	PLCC-32	128k x 8	90ns, 5V, com. temp. ....	1.95	1.75	1.49
74835	28F020-15	DIP-32	256k x 8	150ns, 5V .....	6.95	6.25	5.49
242616	29F020-12	DIP-32	256k x 8	120ns, 5V .....	7.95	6.95	5.95
242659	29F040-120	DIP-32	512k x 8	120ns, 5V .....	3.95	3.75	3.49
242667	29F040-90	DIP-32	512k x 8	90ns, 5V .....	4.25	3.95	3.75
321664	M25P40-VMN6	SOIC-8	512k x 8	3V w/ 40MHz SPI bus interf. ....	2.95	2.49	—
321672	M25P80-VMN6	SOIC-8	1M x 8	3V w/ 40MHz SPI bus interf. ....	2.49	2.25	1.75
1912896	S29GL128N10TR010	TSSOP-56	16M x 8	100ns, 3.6V .....	9.95	7.95	—

★ Boot Block Flash Available Online — Enter Web Code MEH

★ Page Mode Flash Available Online — Enter Web Code BCR

## Flash MCUs

Part No.	Mfr. Part No.	Pkg.	Description	1	10
280268	Z8F1601PM020SC	DIP-40	16kB ROM, 2kB RAM, 31 I/O, A/D .....	\$8.95	\$7.95
280292	Z8F2401PM020SC	DIP-40	24kB ROM, 2kB RAM, 31 I/O, A/D .....	9.95	8.95
280305	Z8F2401VN020SC	PLCC-44	24kB ROM, 2kB RAM, 31 I/O, A/D .....	9.95	8.95
280330	Z8F3201VN020SC	PLCC-44	32kB ROM, 2kB RAM, 31 I/O, A/D .....	8.95	7.95
280348	Z8F3202VS020SC	PLCC-68	32kB ROM, 2kB RAM, 46 I/O, A/D .....	8.95	7.95
280356	Z8F4801PM020SC	DIP-40	48kB ROM, 4kB RAM, 31 I/O, A/D .....	9.95	8.95
280364	Z8F4801VN020SC	PLCC-44	48kB ROM, 4kB RAM, 31 I/O, A/D .....	9.95	8.95
280372	Z8F4802VS020SC	PLCC-68	48kB ROM, 4kB RAM, 46 I/O, A/D .....	9.95	8.95

## Supervisory

★ Web Code: SCT

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
884897	MAX	MAX691ACPE	DIP-16	µP supervisory circuit (C-temp) .....	\$4.95	\$4.15
762620	TI	TPS3836K3DBVT	SOT-23/5	Nano power supervisory circuit .....	1.75	1.49

★ CPLDs and FPGAs Available Online — Enter Web Code SAZ



## Dallas Semiconductors

★ Web Code: QDH

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
866584	DS275	DIP-8	Line powered RS-232 transceiver chip .....	\$4.75	\$4.49	\$3.95
114198	DS1210	DIP-8	NV controller chip .....	3.75	2.95	2.25
114219	DS1213C	DIP-28	Smart socket .....	15.95	14.95	13.95
133410	DS1216C	DIP-28	Smart watch/RAM .....	25.95	22.95	17.95
780182	DS1231-20	DIP-8	Power monitor chip .....	5.95	4.49	—
114331	DS1232LP	DIP-8	Micromonitor chip .....	1.69	1.35	1.09
697231	DS1243Y-120+R	DIP-28	64k NV SRAM w/ phantom clock .....	11.25	10.55	9.93
133444	DS1286	DIP-28	Watchdog timekeeper .....	19.95	17.95	15.95
76646	DS1287★	DIP-24	Real time clock chip .....	7.95	7.25	6.49
176778	DS1302	DIP-8	Trickle charge time keeping .....	2.59	2.05	1.49
780481	DS1302+R	DIP-8	Trickle charge time keeping chip, C-temp .....	2.95	2.29	1.65
1194679	DS1307	DIP-8	5V, 64 x 8 serial I2C real time clock, C-temp .....	2.95	2.49	1.85
114374	DS1387★	DIP-24	RAMified real time clock .....	5.95	5.25	—
114382	DS1620	DIP-8	Digital thermometer and thermostat ..	5.25	4.49	2.95
865936	DS18B20	TO-92	Prog. resolution 1-wire digital thermometer ..	4.25	3.75	3.49
133452	DS12887★	DIP-24	Real time clock chip .....	5.95	4.95	3.75
345359	DS87C520-WCL	DIP-40	EPROM/ROM MCU, high speed .....	39.95	35.95	—

★ Pull = Extra Savings

## PALs, GALs & PEELs

★ Web Code: YAD

Part No.	Mfr.	Product No.	Pkg.	Description	1	10
28020	+	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array .....	\$1.95	\$1.75
111667	+	PAL16R6ANC	DIP-20	TTL, 32 x 64 AND array .....	1.49	1.25
652615	+	GAL16V8-7	DIP-20	7ns 64 x 32 AND array .....	1.95	1.75
88399	+	GAL16V8-10*	DIP-20	10ns 64 x 32 AND array .....	1.85	1.65
37452	+	GAL16V8-15*	DIP-20	15ns 64 x 32 AND array .....	1.09	.99
37461	+	GAL16V8-25*	DIP-20	25ns 64 x 32 AND array .....	.99	.89
876539	LAT	GAL16V8D-25LP	DIP-20	25ns 64 x 32 AND array .....	1.25	1.15
312995	+	16CV8P-25	DIP-20	25ns 64 x 32 AND array, PEEL .....	.89	.69
105953	ANA	18CV8P-25	DIP-20	25ns 74 x 36 AND array, PEEL .....	2.75	2.45
88292	+	GAL20V8-10**	DIP-24	10ns 64 x 40 AND array .....	2.95	2.75
38658	+	GAL20V8-15**	DIP-24	15ns 64 x 40 AND array .....	1.59	1.45
38666	+	GAL20V8-25	DIP-24	25ns 64 x 40 AND array .....	1.49	1.15
105996	ANA	22CV10AP-25	DIP-24	25ns 132 x 44 AND array, PEEL .....	2.95	2.75
123801	+	GAL22V10-10	DIP-24	10ns 132 x 44 AND array .....	3.95	3.75
876951	LAT	GAL22V10D-15LP	DIP-24	15ns 132 x 44 AND array .....	5.95	5.49
39159	+	GAL22V10-15	DIP-24	15ns 132 x 44 AND array .....	3.75	3.49
39167	+	GAL22V10-25	DIP-24	25ns 132 x 44 AND array .....	2.45	2.25
1247902	LAT	GAL22V10D-25LJI	PLCC-28	25ns 132 x 44 AND array .....	2.49	2.25
877013	LAT	GAL22V10D-25LJ	PLCC-28	25ns 132 x 44 AND array, C-temp. ....	2.49	1.75

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6  
 \*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

## MPU Supervisory

Please Note: Manufacturer may vary

★ Web Code: PAN

Part No.	Product No.	Pkg.	Description	1	10	100
106219	MAX690CPA	DIP-8	Watchdog timer, 4.4V .....	\$3.95	\$3.59	\$3.25
106227	MAX691CPE	DIP-16	Watchdog timer, 4.65V .....	3.95	3.59	3.25
1802620	ADM705ANZ	DIP-8	Low cost microprocessor .....	1.25	.95	.65
106260	MAX1232CPA	DIP-8	Watchdog timer, 4.65V - 4.75V .....	1.95	1.49	.85
290221	DS1233D-5	TO-92	Econo reset, 5V .....	.99	.89	.79

Ⓢ Blue Part No. = Limited Quantity Available

## Voice Chip

★ Web Code: XAU

### Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Typical 100k record cycles, 1µA standby current and 100 year message retention
- Playback can be edge or level-activated • 28-pin DIP



Part No.	Mfr. Part No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.) .....	\$6.95	\$6.25	\$5.49

\* ANA = Anachip | LAT = Lattice Semiconductor | MAX = Maxim Semiconductor | TI = Texas Instruments | + = Manufacturer Varies

Ⓡ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Microcontrollers

\*Web Code: PAV

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
145040	MCH	PIC12C508A-04/P	DIP-8	512 OTP, 4MHz, 5 I/O, C-temp .....	\$ .95	\$ .85
144258	MCH	PIC12C509A-04/P	DIP-8	1k OTP, 4MHz, 5 I/O, C-temp .....	.95	.85
145058	MCH	PIC12C509AJW	DIP-8	1k EPROM, 41-bit, 4MHz, 5 I/O .....	10.95	9.49
193455	MCH	PIC12C671-04/P	DIP-8	1k OTP, 128-bit, 4MHz, 6 I/O .....	1.75	1.49
193463	MCH	PIC12C672-04/P	DIP-8	2k OTP, 128-bit, 4MHz, 6 I/O .....	1.75	1.49
248145	MCH	PIC12CE674-10/P	DIP-8	2k OTP, 128-bit, 10MHz, 5 I/O .....	2.49	1.95
223790	MCH	PIC12F629-I/P	DIP-8	1k flash, 20MHz, 6 I/O, I-temp .....	.89	.85
312493	MCH	PIC12F635-I/P	DIP-8	64-bit, 2k flash, 20MHz, 6 I/O .....	.95	.85
223781	MCH	PIC12F675-I/P	DIP-8	1k flash, 20MHz, 6 I/O, I-temp .....	1.09	.99
312514	MCH	PIC12F683-I/P	DIP-8	2k flash, 20MHz, 6 I/O, I-temp .....	1.29	1.25
128338	MCH	PIC16C54A-04/P	DIP-18	512 OTP, 4MHz, 12 I/O, C-temp .....	1.39	1.29
247214	MCH	PIC16C54C-20/P	DIP-18	512 OTP, 25-bit, 20MHz, 12 I/O .....	1.45	1.25
200416	MCH	PIC16C55A-04/P	DIP-28	512 OTP, 24-bit, 4MHz, 20 I/O .....	1.95	1.59
247265	MCH	PIC16C56A-20/P	DIP-18	1k OTP, 25-bit, 20MHz, 12 I/O .....	1.95	1.49
193341	MCH	PIC16C57C-04/P	DIP-28	2k OTP, 25-bit, 4MHz, 20 I/O, C-temp .....	1.95	1.85
200424	MCH	PIC16C66-04/SP	DIP-18	8k OTP, 368-bit, 4MHz, 22 I/O .....	4.95	4.49
247484	MCH	PIC16C67-20/P	DIP-40	8k OTP, 368-bit, 20MHz, 33 I/O .....	5.49	5.25
200432	MCH	PIC16C72A-04/SP	DIP-28	2k OTP, 128-bit, 4MHz, 22 I/O .....	3.49	2.95
247695	MCH	PIC16C72A-20/P	DIP-28	2k OTP, 128-bit, 20MHz, 22 I/O .....	3.95	3.55
193359	MCH	PIC16C711-04/P	DIP-18	1k OTP, 4MHz, 13 I/O, C-temp .....	2.25	2.15
247599	MCH	PIC16C711-20/P	DIP-18	1k OTP, 68-bit, 20MHz, 13 I/O .....	2.75	2.49
247601	MCH	PIC16C711-20/SO	SOIC-18	1k OTP, 68-bit, 20MHz, 13 I/O .....	2.75	2.49
247759	MCH	PIC16C773-I/SP	DIP-28	4k OTP, 256-bit, 20MHz, 22 I/O .....	4.95	—
145111	MCH	PIC16F84A-04/P	DIP-18	1k flash, 4MHz, 13 I/O, C-temp .....	3.55	3.35
145120	MCH	PIC16F84-10/P	DIP-18	1k flash, 10MHz, 13 I/O, C-temp .....	6.95	6.75
193332	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O, C-temp .....	3.75	3.55
246861	MCH	PIC16F84A-20/P	DIP-18	1k flash, 20MHz, 13 I/O, I-temp .....	3.95	3.75
246887	MCH	PIC16F84A-20/SS	SSOP-20	68-bit, 1k flash, 20MHz, 13 I/O .....	5.25	—
247097	MCH	PIC16F87-I/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp .....	3.39	3.19
312733	MCH	PIC16F88-I/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp .....	3.25	2.95
193439	MCH	PIC16F627-20/P	DIP-18	1k flash, 20MHz, 16 I/O, C-temp .....	2.75	2.59
193447	MCH	PIC16F628-20/P	DIP-18	2K flash, 20MHz, 16 I/O, C-temp .....	3.25	2.95
246756	MCH	PIC16F628-20/P	DIP-18	2k flash, 20MHz, 16 I/O, I-temp .....	3.49	3.25
223749	MCH	PIC16F630-I/P	DIP-14	1k flash, 20MHz, 12 I/O, I-temp .....	1.29	1.19
247151	MCH	PIC16F648A-I/SO	SOIC-18	256-bit, 4k flash, 20MHz, 16 I/O .....	1.95	1.75
247142	MCH	PIC16F648A-I/P	DIP-18	4k flash, 20MHz, 16 I/O, I-temp .....	2.25	1.95
223757	MCH	PIC16F676-I/P	DIP-14	1k flash, 20MHz, 12 I/O, I-temp .....	1.29	1.25
312602	MCH	PIC16F684-I/ST	TSSOP-14	128-bit, 2k flash, 20MHz, 12 I/O .....	1.25	1.05
312590	MCH	PIC16F684-I/P	DIP-14	2k flash, 20MHz, 12 I/O, I-temp .....	1.59	1.49
312611	MCH	PIC16F688-I/P	DIP-14	4k flash, 20MHz, 12 I/O, I-temp .....	1.95	1.75
312629	MCH	PIC16F688-I/ST	TSSOP-14	256-bit, 4k flash, 20MHz, 12 I/O .....	1.25	1.05
312709	MCH	PIC16F767-I/SP	DIP-28	368-bit, 8k flash, 20MHz, 25 I/O .....	3.49	—
312725	MCH	PIC16F777-I/P	DIP-40	368-bit, 8k flash, 20MHz, 36 I/O .....	3.95	3.49
223765	MCH	PIC16F818-I/P	DIP-18	1k flash, 20MHz, 16 I/O, I-temp .....	2.25	1.95
247071	MCH	PIC16F819-I/SS	SSOP-20	256-bit, 2k flash, 20MHz, 16 I/O .....	2.15	1.95
223773	MCH	PIC16F819-I/P	DIP-18	2k flash, 20MHz, 16 I/O, I-temp .....	2.49	2.25
246895	MCH	PIC16F870-I/SP	DIP-28	2k flash, 20MHz, 22 I/O, I-temp .....	2.95	2.75
246924	MCH	PIC16F871-I/P	DIP-40	128-bit, 2k flash, 20MHz, 33 I/O .....	3.15	2.95
246941	MCH	PIC16F872-I/SP	DIP-28	2k flash, 20MHz, 22 I/O, I-temp .....	2.95	2.75
246975	MCH	PIC16F873A-I/SP	DIP-28	4k flash, 20MHz, 22 I/O, I-temp .....	3.95	3.75
193367	MCH	PIC16F876-20/SP	DIP-28	8k flash, 20MHz, 22 I/O, C-temp .....	5.95	5.75
247011	MCH	PIC16F876A-I/SP	DIP-28	8k flash, 20MHz, 22 I/O, I-temp .....	4.25	3.95
247046	MCH	PIC16F877A-I/L	PLCC-44	8k flash, 20MHz, 33 I/O, I-temp .....	5.65	5.45
176882	MCH	PIC16F877-20/P	DIP-40	8k flash, 20MHz, 22 I/O, C-temp .....	5.65	5.45
247038	MCH	PIC16F877A-I/P	DIP-40	8k flash, 20MHz, 33 I/O, I-temp .....	4.75	4.55
247880	MCH	PIC17C42A-16/L	PLCC-44	2k OTP, 232-bit, 16MHz, 33 I/O .....	7.95	6.95
247901	MCH	PIC17C43-25/L	PLCC-44	4k OTP, 454-bit, 25MHz, 33 I/O .....	10.95	—
247919	MCH	PIC17C44-33/P	DIP-40	8k OTP, 454-bit, 33MHz, 33 I/O .....	9.95	8.95
247935	MCH	PIC17C752-33/L	PLCC-68	8k OTP, 678-bit, 33MHz, 50 I/O .....	9.95	8.95
247943	MCH	PIC17C756A-33/L	PLCC-68	16k OTP, 902-bit, 33MHz, 50 I/O .....	11.95	—
247951	MCH	PIC17C762-16/L	PLCC-44	8k OTP, 678-bit, 33MHz, 66 I/O .....	12.95	11.95

Blue Part No. = Limited Quantity Available

\* ATM = Atmel Semiconductor | DAL = Dallas Semiconductor | MCH = Microchip | NXP = NXP/Philips Semi | TI = Texas Instruments

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Microcontrollers (Continued)

\*Web Code: PAV

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
247960	MCH	PIC17C766-33/L	PLCC-84	16k OTP, 902-bit, 33MHz, 66 I/O .....	\$14.95	—
200491	MCH	PIC18C242-I/SP	DIP-28	16k OTP, 512-bit, 40MHz, 23 I/O .....	5.25	4.49
200504	MCH	PIC18C252-I/SP	DIP-28	32k OTP, 1536-bit, 40MHz, 23 I/O .....	5.49	4.95
247994	MCH	PIC18F252-I/SP	DIP-28	32k flash, 40MHz, 23 I/O, I-temp .....	5.39	5.25
248081	MCH	PIC18F442-I/L	PLCC-44	768-bit, 8k flash, 40MHz, 34 I/O .....	5.95	5.75
312477	MCH	PIC18F448-I/L	PLCC-44	768-bit, 16k flash, 40MHz, 33 I/O .....	7.95	6.49
248031	MCH	PIC18F452-I/P	DIP-40	32k flash, 40MHz, 34 I/O, I-temp .....	5.95	5.75
248049	MCH	PIC18F452-I/L	PLCC-44	32k flash, 40MHz, 34 I/O, I-temp .....	6.75	6.25
248057	MCH	PIC18F458-I/P	DIP-40	32k flash, 40MHz, 33 I/O, I-temp .....	6.95	6.75
248129	MCH	PIC18F1320-I/SO	SOIC-18	256-bit, 4k flash, 40MHz, 16 I/O .....	2.49	2.25
248111	MCH	PIC18F1320-I/P	DIP-18	8k flash, 40MHz, 16 I/O, I-temp .....	3.95	3.49
312303	MCH	PIC18F2525-I/SP	DIP-28	48k flash, 40MHz, 25 I/O, I-temp .....	6.95	6.25
248330	ATM	ATMEGA8-16PI	DIP-28	8k flash, 16MHz, 23 I/O, I-temp .....	2.95	2.65
248161	ATM	ATTINY11-6SI	SOIC-8	8-bit MCU, 1k flash, 6MHz, 6 I/O, I-temp .....	1.95	1.25
765302	ATM	ATTINY13-20PU	DIP-8	1k flash, 20MHz, 6 I/O, I-temp .....	1.39	1.29
917687	NXP	PCF8583PN	DIP-8	Clock calendar w/ 240 x 8 RAM .....	2.95	2.35
168874	ATM	AT89C2051-24PU	DIP-20	2k flash, 24MHz, 15 I/O, C-temp .....	1.09	.89
204089	ATM	AT89C4051-24PC	DIP-20	4k flash, 24MHz, 15 I/O, C-temp .....	1.95	1.49
323133	ATM	ATMEGA16-16PU	DIP-40	6k flash, 16MHz, 32 I/O, I-temp .....	4.75	3.95
689039	ATM	ATTINY2313V-10PU	DIP-20	2k flash, 16MHz, 18 I/O, I-temp .....	2.05	1.35
1537061	ATM	ATTINY2313-20PU	DIP-20	2k flash, 20MHz, 18 I/O, I-temp .....	2.15	1.79
248217	ATM	ATTINY26-16PC	DIP-20	2k flash, 16MHz, 16 I/O, C-temp .....	2.05	1.49
699552	NXP	P80C31SBPN	DIP-40	128 x 8 RAM, LV (2.7-5.5V), LP, hi-spd (33MHz) .....	1.95	1.75
699579	NXP	P80C32SBPN	DIP-40	256 x 8 RAM, LV (2.7-5.5V), LP, hi-spd (33MHz) .....	2.19	1.75
323141	ATM	ATMEGA8515-16PC	DIP-40	8k flash, 16MHz, 35 I/O, C-temp .....	4.95	4.75
395621	ATM	ATMEGA8515L-8PC	DIP-40	8k flash, 8MHz, 35 I/O, C-temp .....	3.49	2.95
168911	ATM	AT89C51-24JC	PLCC-44	4k flash, 24MHz, 32 I/O, C-temp .....	3.95	3.49
168903	ATM	AT89C51-24PC	DIP-40	4k flash, 24MHz, 32 I/O, C-temp .....	3.95	3.49
355830	ATM	AT89S51-24PC	DIP-40	4k flash, 33MHz, 32 I/O, C-temp .....	1.75	1.65
168920	ATM	AT89C52-24PC	DIP-40	8k flash, 24MHz, 32 I/O, C-temp .....	2.95	2.49
220871	ATM	AT89S52-24JI	PLCC-44	8k flash, 24MHz, 32 I/O, I-temp .....	1.35	1.25
662637	ATM	AT89S52-24PC	DIP-40	8k flash, 24MHz, 32 I/O, C-temp .....	1.75	1.65
168946	ATM	AT89C55WD-24PC	DIP-40	20k flash, 24MHz, 32 I/O, C-temp .....	3.49	3.25
114403	DAL	DS80C320-MCG	DIP-40	High speed LP micro, C-temp .....	10.95	8.95
646057	ATM	AT89S8253-24JU	PLCC-44	8-bit MCU 12k flash, 24MHz, 32 I/O, I-temp .....	3.95	3.25
1951035	ATM	AT89S8253-24PU	DIP-40	12k flash, 24MHz, 32 I/O, I-temp .....	3.95	3.49
248663	TI	MSP430F1121AIPW	SSOP-20	16-bit MCU, flash, 8MHz 4k ROM, 14 I/O .....	2.95	2.49

## MICROCHIP 16-Bit Digital Signal Controllers dsPIC

The dsPIC® Digital Signal Controller (DSC) from Microchip is a powerful 16-bit (data) modified Harvard RISC machine that combines the control advantages of a high-performance 16-bit microcontroller (MCU) with the high computation speed of a fully implemented digital signal processor (DSP) to produce a tightly coupled single-chip single-instruction stream solution for embedded systems design. All integrate Flash program memory and most have EEPROM data storage.

- Memory: flash
- Speed: 40MHz

Part No.	Mfr. Part No.	Pkg.	MIPS	Program	SRAM	1	10
				Mem. Bytes	Bytes		
321787	DSPIC30F2010-20I/SOG	SOIC-28	20	12k	512 .....	\$5.95	\$5.75
321808	DSPIC30F2010-30I/SOG	SOIC-28	30	12k	512 .....	6.95	6.75
321816	DSPIC30F6010-20I/PF	TQFP-80	20	144k	8192 .....	15.95	14.95
321832	DSPIC30F6011-20I/PF	TQFP-64	20	132k	6144 .....	14.95	13.95
321859	DSPIC30F6012-20I/PF	TQFP-64	20	144k	8192 .....	13.95	12.95
323053	DSPIC30F6013-20I/PF	TQFP-80	20	132k	6144 .....	14.95	13.95
323061	DSPIC30F6013-30I/PF	TQFP-80	30	132k	6144 .....	15.95	14.95
323070	DSPIC30F6014-20I/PF	TQFP-80	20	144k	8192 .....	14.95	13.95
323088	DSPIC30F6014-30I/PF	TQFP-80	30	144k	8192 .....	15.95	14.95

## PARALLAX 50MIPS SX Microcontroller

Part No.	Mfr.	Part No.	Description	1	10
162931	SX28AC/DP	DIP-28	50MIPS SX microcontroller .....	\$2.95	\$2.75



## 80C52-BASIC Microcontroller

A custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

- Full BASIC interpreter in ROM on a single chip
- Operates DC to 12MHz
- "Stand-alone" software development
- On-chip oscillator and clock circuit
- Interrupts can be handled by BASIC or Assembly Language

Part No.	Mfr. Part No.	Description	1	10	50
125647	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter ..	\$33.95	\$31.95	\$29.95

## KAE Servo Controllers

\* Web Code: YBC

Controller operates from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

### 146472: PIC-SERVO Motion Control Chipset for DC Motors

- For DC motors with digital encoders
- 32-bit position, velocity and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chipset (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)

### 323934: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs

Part No.	Mfr. Part No.	Package	1	10	50
146472	KAE-TOV4-DPS	DIP-28/18, 0.3"	\$35.95	\$32.95	\$30.95
323934	KAE-TOV10-DP	DIP-28, 0.3"	29.95	26.95	24.95

## KAE Smart Serial Adapter

### Serial Converter/Stand Alone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host with either the simple sequencer chip or a PIC18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2

Part No.	Mfr. Part No.	Description	1	5
1586120	KAE-SSA485-BDV1	Smart serial adapter .....	\$99.95	\$89.95

## PARALLAX ̸ Propeller Microprocessor Chips

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.

Complete specifications see [www.Jameco.com](http://www.Jameco.com)

Part No.	Mfr. Part No.	Package	1	10
2007134	P8X32A-D40	DIP-40 .....	\$12.95	\$11.95
2007142	P8X32A-M44	QFN-44 .....	12.95	12.35
2007151	P8X32A-Q44	LQFP-44 .....	12.95	11.95

## PARALLAX ̸ BASIC Stamps

See page 37 for Serial LCD Modules

Ideal for controller applications including robotics, radio-controlled interfaces of a digital camera, and much more.

Complete specifications see [www.Jameco.com](http://www.Jameco.com)

Part No.	Mfr. Part No.	Package	1	10
127693	BS1-IC	14-pin .....	\$29.95	\$28.45
183071	27291	20-pin SIP (BS2 OEM kit) .....	49.95	47.49
130892	BS2-IC	24-pin .....	48.95	43.95

## PARALLAX ̸ 50MHz BASIC Stamp 2SX Module

- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep
- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC

Part No.	Mfr. Part No.	Pkg.	No. of I/O Pins	1	10
159775	BS2SX-IC	24-pin	16 + 2 serial .....	\$55.95	\$51.95

## PARALLAX ̸ BASIC Stamp 2P Modules

In addition to the BS2-SX (below left) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Voltage requirements: 5-12VDC
- Current draw @ 5V: 40mA run; 400µA sleep
- Scratch pad RAM: 128 bytes

184911



Part No.	Mfr. Part No.	Pkg.	No. of I/O Pins	1	5
184911	BS2P24-IC	24-pin	16 + 2 serial .....	\$74.95	\$69.95
184920	BS2P40-IC	40-pin	32 + 2 serial .....	84.95	79.95

See page 188 & 189 for Parallax Boards & Kits



## Tiny Logic® Series

Order in multiples of 10

Part No.	Mfr. Part No.	Pkg.	Description	10	100
873830	NC7SU04M5X	SOT-23/5	Single unbuffered inverter .....	\$ .07	\$ .05
873725	NC7S08P5X	SC-70/5	Single 2-input AND gate .....	.09	.05
874138	NC7SZ125M5X	SOT-23/5	Buffer w/ 3-st. output .....	.09	.05

## Interface Series

\* Web Code: RBU

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10
242077	+	TC428CPA	DIP-8	4.5-18V, dual MOSFET driver .....	\$ .99	\$ .89
832448	+	DS26LS32ACM/NOPB	SOIC-16	Quad differential line receiver .....	.89	.55
1291647	MCH	TC4420CPA	DIP-8	6A high speed MOSFET driver .....	1.29	1.09
313437	+	ICM7218AIJ	DIP-28	5V, 8 digit LCD driver .....	6.95	6.25
312160	MAX	MAX7219CNG	DIP-24	5V, 8 digit LCD driver .....	7.95	6.95
313322	+	ICM7228AIP	DIP-28	5V, 8 digit LCD driver .....	5.95	5.49
50884	+	SN75154N	DIP-16	5-12V, quad line receiver .....	.39	.35
277940	+	SN75179BP	DIP-8	5V, diff line driver/receiver .....	.99	.89
277974	+	SN75183N	DIP-14	5V, dual diff line driver .....	1.95	1.75
51027	+	SN75451AN	DIP-8	7V, dual peripheral AND driver .....	.59	.49
51131	+	SN75492P	DIP-14	5V, HEX digit driver .....	4.95	4.49
699780	+	PCA82C250N	DIP-8	Can controller interface, 1-temp. ....	.99	.85

\* Ethernet Controllers Available Online — Enter Web Code LAE

\* Interface Controllers Available Online — Enter Web Code HAS



## Digital Interface

\* Web Code: WBB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	50
323977	EDEFT639/P	DIP-8	Servo controller .....	\$6.95	\$6.25	—
171951	EDE702	DIP-18	Serial LCD interface .....	7.19	6.75	6.25
321710	EDE707	DIP-28	Octal 7-segment LED display decoder ..	7.19	6.75	6.25
171969	EDE1144	DIP-18	Keypad encoder .....	5.19	4.95	4.75
141532	EDE1200	DIP-18	Unipolar stepper motor controller .....	6.39	6.15	5.95
157526	EDE1204	DIP-18	Bipolar stepper motor controller .....	6.39	6.15	5.95
321736	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan ..	4.19	4.09	3.95
321761	EDE2208/P	DIP-18	8-pushbutton momentary to toggle .....	4.19	4.09	3.95

## Motor/Display Drivers

\* Web Code: DAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
25216	ON	MC3479P	DIP-16	7.2-16.5V, stepper motor driver ..	\$3.25	\$2.95	\$2.45
1762681	ALL	UDN2981A-T	DIP-18	8-channel source driver .....	1.79	1.59	1.39
24230	NSC	LM3914N	DIP-18	25V, dot/bar display driver .....	2.75	2.49	2.25
300003	NSC	LM3914N-1	DIP-18	25V, dot/bar display driver .....	1.95	1.85	1.57
901010	NSC	LM3914N-1/NOPB	DIP-18	25V, dot/bar display driver .....	2.35	1.95	1.45
246625	NSC	LM3914V	PLCC-20	25V, dot/bar display driver .....	2.49	2.25	1.95
24256	NSC	LM3915N	DIP-18	25V, dot/bar display driver .....	2.75	2.49	2.25
901061	NSC	LM3915N-1	DIP-18	3dB/step, 30db range dot/bar disp. dvr	2.55	2.05	1.55
24272	NSC	LM3916N	DIP-18	3-25V, dot/bar display driver .....	2.75	2.49	2.25
901108	NSC	LM3916N-1	DIP-18	25V, dot/bar display driver .....	2.45	1.95	1.35
792440	ON	MC14489BPE	DIP-20	Multi character LED display/lamp drv.	4.25	3.49	3.25
241824	MOT	MC14489BP	DIP-20	5V, 7-segment LED display driver ..	3.95	3.25	2.95

\* ALL = Allegro | MAX = Maxim Semi | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Stepper Motor Drivers/Controllers

\*Web Code: GDP

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
924545	L293DD	SOIC-20	Push pull 4-ch driver w/ diodes	\$4.49	\$3.75	\$3.25
288067	L2971	DIP-20	Stepper motor controller, 5V	5.95	5.49	4.95
245403	L298N	MW-15	Dual full-bridge driver, 46V	2.59	2.45	2.25
288091	L6202	DIP-18	DMOS full bridge driver, 48V	5.95	5.49	4.95
288104	L6203	MW-11	DMOS full bridge driver, 48V	6.95	6.25	5.49
288105	L6203	MW-11	DMOS full bridge driver, 48V	7.95	6.95	6.25
288121	L6506D	SOIC-20	Stepper motor current controller, 5V	2.95	2.75	—
871009	MC33035PG	DIP-24	Brushless DC motor controller	2.75	2.25	—

\*Motion Control Available Online — Enter Web Code DEU

## Encoders/Decoders

\*Web Code: VAR

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
243408	TP3054N	DIP-16	U-law PCM CODEC & filter, 5V	\$2.45	\$1.75	\$1.45
296702	MOT MC145026P	DIP-16	Encoder, 4.5-18V	2.49	2.25	2.05
296711	MOT MC145027P	DIP-16	Decoder, 4.5-18V	2.95	2.75	2.49
296729	MOT MC145028P	DIP-16	Decoder, 4.5-18V	1.95	1.75	.85
123730	HOL HT12E	DIP-18	Encoder, 2.4-12V	1.75	1.55	1.35
123748	HOL HT12D	DIP-18	Decoder, 2.4-12V	1.65	1.45	1.25
243483	MCH HCS512-I/P	DIP-18	Code hopping decoder, 4-6V	4.95	4.25	—
287945	MCH MCP2140-I/P	DIP-18	Standard protocol stack controller, 3-5V	2.95	2.75	1.49
287970	MCH MCP2150-I/SO	SOIC-18	Standard protocol stack controller, 3-5V	3.95	2.95	—
243459	MCH MCP2150-I/P	DIP-18	Standard protocol stack controller, 3-5V	2.95	2.75	—

## Buffer

\*Web Code: WBR

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
23051	LH0002CN	DIP-10	General purpose buffer	\$12.95	\$11.95	\$10.95

## Power Management

\*Web Code: PMT

Part No.	*Mfr. Product No.	Pkg.	Description	1	10
291670	MAX712CPE	DIP-16	NiCd/NiMH battery fast chrg controller	\$5.95	\$4.95
312848	TI BQ2004PN	DIP-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV	2.95	2.49
312928	TI BQ2018TS-E	TSSOP-8	Rechargeable battery power monitor	3.95	3.49
312936	TI BQ2019PW	TSSOP-8	Rechargeable battery power monitor	3.49	3.25
312881	TI BQ2040SN-D11	SOIC-16	Li-Ion/NiMH/NiCd gas gauge w/ smbus	5.95	4.95
312961	TI UC3906N	DIP-16	Linear lead acid battery charger	4.25	3.75

## MAXIM RS-485/422 Transceiver

Part No.	Mfr. Part No.	Pkg.	Description	1	10
311837	MAX1480BEPI	DIP-28	RS-485/422 data interface, 5V	\$19.95	\$16.95

## RS-422/423/485 Drivers/Receivers

\*Web Code: NBT

Part No.	*Mfr. Product No.	Pkg.	Description	1	10
299807	LTC485CN8	DIP-8	RS-485 LP transceiver, 5V	\$1.75	\$1.49
276576	MAX MAX490CPA	DIP-8	RS-485/422 LP transceiver, 12V	1.95	1.35
244195	MAX MAX1487CPA	DIP-8	RS-485/422 LP transceiver, 12V	2.25	1.75
39571	26LS30	DIP-16	RS-422/423 line driver, 5V	2.49	2.25
39589	26LS31	DIP-16	RS-422 quad diff. line driver, 5V	.39	.25
39600	26LS32	DIP-16	RS-422/423 quad diff. line receiver, 5V	.59	.49
25232	MC3486P	DIP-16	RS-422/423 quad diff. line receiver, 5V	.25	.15
25259	MC3487P	DIP-16	RS-422/423 quad line driver, 5V	.29	.25
144039	NSC DS3695N	DIP-8	Multipoint RS-422/423 trans, 5V	.99	.89
50948	SN75174N	DIP-16	RS-422 quad diff. line driver w/ 3 st.	.89	.79
50956	SN75175N	DIP-16	RS-422/423 quad diff. line receiver, 5V	.89	.79
758364	TI SN75176AP	DIP-8	RS-422 differential bus transceiver	.65	.55
891149	NSC DS75176BN	DIP-8	Multipoint RS-485/422 transceiver	1.49	1.25
50964	SN75176BN	DIP-8	RS-422 diff. line bus transceiver, 5V	.59	.49

\*65LVDS Series Available Online — Enter Web Code UEU

## RS-232 Drivers/Receivers

\*Web Code: EAV

Part No.	*Mfr. Product No.	Pkg.	Description	1	10
142535	MAX202CPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps	\$2.49	\$2.05
244232	MAX202CSE	SOIC-16	5V, 120kbps, w/ 0.1µF ext. caps	2.25	1.95
244241	MAX202EPE	DIP-16	5V, 120kbps, w/ 0.1µF ext. caps	2.95	2.49
282790	MAX MAX211CAI	SSOP-28	5V, w/ 0.1µF ext. caps	2.95	2.75
875448	INS HIN232CP	DIP-16	5V hi spd RS-232 transmitter/receiver	.89	.79
24811	MAX232CPE*	DIP-16	5V, 200kbps, multichannel	1.85	1.65
24812	MAX MAX232CPE	DIP-16	5V, 200kbps, multichannel	1.95	1.75
318959	MAX MAX232CPE	DIP-16	5V, 200kbps, multichannel	2.25	1.95
318960	MAX MAX232CPE	DIP-16	5V, 200kbps, multichannel	2.49	2.15
106147	MAX232CWE	SOIC-16	5V, 120kbps, multichannel	2.49	2.15
256401	MAX232DR	SOIC-16	5V, 120kbps, dual driver/receiver	.69	.59
882293	MAX MAX232ECPE	DIP-16	±15kV ESD-protected, +5V RS-232 trans.	3.75	3.09
106155	MAX232EPE	DIP-16	5V, 120kbps, multichannel	3.95	3.15
106156	MAX232EPE	DIP-16	5V, 120kbps, multichannel	2.95	2.49
903277	TI MAX232IN	DIP-16	Dual EIA-232 driver/receiver, I-temp	.75	.65
698576	TI MAX232N	DIP-16	Dual EIA-232 driver/receiver, C-temp	.75	.65
106163	MAX233CPP	DIP-20	5V, 120kbps, multichannel	5.75	4.75
106171	MAX235CPG	DIP-24	5V, 120kbps, multichannel	10.95	9.95
106180	MAX238CNG	DIP-24	5V, 120kbps, multichannel	5.49	4.95
828043	TI MC1488N	DIP-14	Quad line driver	.39	.35
23157	DS1488N*	DIP-14	15V, quad line driver	.35	.29
16379	DS14C89N	DIP-14	5V, quad line receiver	1.19	1.09
698613	TI MAX3232CD	SOIC-16	3-5.5V multich RS-232 line drv/rec w/ ±15kV ESD	1.25	1.15
235301	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/receiver	2.49	2.25
23181	SN75189N*	DIP-14	5V, quad line receiver	.35	.29
25099	MC145406P	DIP-16	5-12V, EIA-232-D/V.28 driver/receiver	2.25	1.95
929207	ON MC100EP17DWG	SOIC-20	Quad differential driver/receiver	15.95	13.95
252128	MAX3231CAE	SSOP-16	3-5.5V, 120kbps, auto shutdown	1.95	1.49
276859	MAX3232CDR	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	1.25	.85
276867	MAX3232CSE	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected	1.49	1.25

\*10 pcs. in Linear series IC cabinet kit, pg 16

## MAXIM DC-DC Controller

\*Web Code: VFL

Part No.	Mfr. Part No.	Pkg.	Description	1	10
806856	MAX1771ESA	SOIC-8	12V or adj, hi-eff, step up DC-DC contr, I-temp.	\$4.95	\$3.49

## Comparators

\*Web Code: EBS

Part No.	*Mfr. Product No.	Pkg.	Description	1	10	100
311044	NSC LM111J-8	DIP-8	Voltage comparator	\$7.95	\$6.95	\$6.25
282087	LM139J	CDIP-14	Low pwr, low offset volt quad	1.75	1.55	1.35
302391	LM211D	SOIC-8	Hi-speed, strobed diff. comparator	.25	.19	.15
23528	LM311N*	DIP-8	Voltage comparator	.25	.22	.19
902522	TI LM311DR	SOIC-8	Differential comp. w/ strobes	*	.12	.09
837812	NSC LM311N/NOPB	DIP-8	Voltage comparator	.89	.69	.49
143888	LM339AN	DIP-14	Low power quad comparator	.25	.19	.15
826742	TI LM339N	DIP-14	Quad differential comparator	.35	.29	.25
23851	LM339N*	DIP-14	Quad comparator	.25	.19	.17
193594	LM339M	SOIC-14	Low pwr low offset volt quad	.25	.17	.15
120900	LM3392N	DIP-8	Low power op amp/volt comp.	1.09	.99	.89
24281	LM393N	DIP-8	Dual comparator	.25	.19	.17
903007	TI LM393P	DIP-8	Dual differential comp., C-temp	.35	.29	.25
212177	LM393AN	DIP-8	Low pwr low offset volt quad comp	*	.19	.15
297844	MAX MAX902CSD	SOIC-14	Hi-speed low pwr precision volt comp	7.95	5.95	—
312266	LTC LT1016CS8	SOIC-8	Ultra-fast precision 10ns comparator	2.95	1.95	—
107238	LM3302N	DIP-14	Low pwr low offset volt quad	.45	.35	.29
1944741	ST TS3721IN	DIP-8	LP dual CMOS volt (I-temp)	.39	.35	.25
277173	NSC LMC7211AIM	SOIC-8	Comp w/ rail-to-rail input, push pull output	.99	.79	.69
277190	NSC LMC7211BIM	SOIC-8	Comp w/ rail-to-rail input, push pull output	.99	.79	.69

\*10 pcs. /\*\*20 pcs. included in Linear kit, pg 16

\*IEEE-1394 Available Online — Enter Web Code KEN

\*HOL = Holtek | INS = Intersil | LTC = Linear Technology | MAX = Maxim Semi | MOT = Motorola | NSC = National Semi | ON = ON Semi | ST = ST Micro | TI = Texas Instruments | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed AboveOrder by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

## Audio Amps

\*Web Code: MBP

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
243678	ADI	OP275GP	DIP-8	Dual JFET audio op amp	\$2.25	\$1.85	\$1.49
24037	NSC	LM380N	DIP-14	2-watt, power amp	1.39	1.09	.75
24088	NSC	LM383T	TO-220/5	7-watt, high power	5.95	5.49	4.95
24096	NSC	LM384N	DIP-14	5-watt audio amp	1.59	1.29	.95
839586	NSC	LM384N/NOPB	DIP-14	5-watt audio power amp	1.69	1.39	1.05
24125	NSC	LM386N-1*	DIP-8	Low voltage, 250mW/6V	.79	.59	.45
24126	NSC	LM386N-1A	DIP-8	Low voltage, 250mW/6V	.65	.49	.41
839826	NSC	LM386N-1/NOPB	DIP-8	Low voltage audio power amp	.99	.79	.55
24133	NSC	LM386N-3*	DIP-8	Low voltage, 500mW/9V	.69	.59	.49
24483	NSC	LM725CN	DIP-8	Instrumentation op amplifier	1.95	1.25	.95
295718	NSC	LM1203N	DIP-28	RGB video amp	5.95	5.49	4.95
24942	ON	MC1350P	DIP-8	Video IF amp. (12V operation)	2.95	2.75	2.49
23270	NSC	LM1875T	TO-220/5	20-watt audio power amp	2.95	2.49	1.95
835753	NSC	LM1875T/LB03	TO-220/5	20W audio power amp	2.49	2.25	1.85
23288	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	1.95	1.75	1.49
107140	NSC	LM1881N	DIP-8	Video synchronous separator	2.49	2.25	1.59
32897	ST	TDA2002V	TO-220/5	8-watt audio high power amp	4.95	4.49	3.95
1416999	ST	TDA2030V	PWAT-5	14W hi-fi audio amp	3.75	3.25	2.59
315344	ST	TDA2040V	PWAT-5	20W hi-fi power	2.25	1.95	1.75
275830	TI	OPA2134PA	DIP-8	High performance audio op amp	2.15	2.05	1.95
275821	ADI	OPA2134UA	SOIC-8	High-performance audio op amp	1.95	1.69	1.45
312063	ADI	SSM2141P	DIP-8	High common-mode rejection diff. line rec.	2.95	2.15	—
126834	NSC	LM3876T	TO-220/11	40W high perf. audio amp w/mute	3.95	3.49	—
320670	NSC	LM3886TF	TO-220/11	68W high perf., isol. pkg.	5.95	4.95	4.25
192516	NSC	LM3886T	TO-220/11	68W high perf.	5.95	4.95	3.95
302201	NSC	LM4752T	TO-220/7	Stereo 11W audio power amp	2.95	2.75	2.49
316873	MOT	MC34119D	SOIC-8	LP audio amp. (500mW, 16VDC)	1.19	1.09	.89
316865	MOT	MC34119P	DIP-8	LP audio amp. (500mW, 16VDC)	2.25	2.05	1.85

\*10 pieces included in Linear kit, pg 16    \*Blue Part No. = Limited Quantity Available

\*Instrumentation Amps Available Online — Enter Web Code NDA

ANALOG DEVICES

## Amplifiers

\*Web Code: EEN

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1805943	ADXL213AE	LCC-8	5V, low cost $\pm 2g$ dual-axis accelerometer	\$16.95	\$15.95	\$14.95
1778068	AD524AD	CDIP-16	Precision instrumentation amp	19.95	19.49	18.95
1780862	AD620ANZ	DIP-8	Low cost, LP instrumentation amp	6.55	5.35	5.25
1781021	AD624AD	CDIP-16	Precision instrumentation amp	23.95	23.49	22.95
1781136	AD627AR	SOIC-8	Low cost instrumentation amp	4.95	3.95	—
311132	AD811AN	DIP-8	High performance video op amp	7.49	6.25	5.75
1808968	SSM2019BNZ	DIP-8	Self contained audio preamplifier	3.49	2.75	—

## A/D & D/A Converters

\*Web Code: QAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
277149	MAX	MAX110ACWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-ch	\$9.95	\$8.75	—
277131	MAX	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-ch	12.95	9.95	9.49
277122	MAX	MAX110BCWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-ch	8.95	6.75	—
277165	MAX	MAX186BCPP	DIP-20	A/D, 12-bit, 5V, 6sps, 8-ch	27.95	25.95	22.95
277069	MAX	MAX197BCNI	DIP-28	A/D, 12-bit, 5V, 10Ksps, 8-ch	19.95	13.95	—
289545	TI	TLC540IDW	SOIC-20	A/D, 8-bit, 5V, 75Ksps	3.49	2.95	2.49
289553	TI	TLC540IFN	PLCC-20	A/D, 8-bit, 5V, 75Ksps	3.49	2.95	2.49
289596	TI	TLC541IDW	SOIC-20	A/D, 8-bit, 5V, 40Ksps	2.95	2.49	1.95
289705	TI	TLC542IFN	PLCC-20	A/D, 8-bit, 5V, 25Ksps	1.95	1.75	1.49
289713	TI	TLC545CN	DIP-28	A/D, 8-bit, 5V, 76Ksps	4.95	4.25	—
287312	ADI	AD676JD	DIP-28	A/D, 16-bit, 5 $\pm 12V$ , 100Ksps, 1-ch	59.95	—	—
10145	NSC	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	3.95	3.25	2.95
10153	NSC	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-ch	2.75	2.25	1.85
828342	NSC	ADC0804LCN/NOPB	DIP-20	A/D, 8-bit $\mu P$ compatible ( $\pm 1LSB$ )	2.95	2.35	2.05
10170	NSC	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	4.75	3.95	3.39
10188	NSC	ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-ch	2.59	2.39	2.25
831031	NSC	ADC0816CCN	DIP-40	A/D, 8-bit, $\mu P$ comp. ADC w/ 16-ch	11.95	10.25	—
10209	NSC	ADC0817CCN	DIP-40	A/D, 8-bit, 5V, 9.1Ksps, 16-ch	4.95	3.95	—
10225	NSC	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5Ksps	3.49	3.15	2.49
831066	NSC	ADC0820CCN/NOPB	DIP-20	A/D, 8-bit hi-spd $\mu P$ , w/ track/hold	3.65	3.25	2.65
116100	NSC	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32 $\mu s$	1.75	1.55	1.35
831171	NSC	ADC0831CCN/NOPB	DIP-8	A/D, 8-bit, 5V, 32 $\mu s$	2.49	2.09	1.69

\*ADI = Analog Devices | INS = Intersil | LTC = Linear Tech | MAX = Maxim | MCH = Microchip | MOT = Motorola | NSC = National Semi | ON = ON Semi | SAM = Samsung | ST = ST Micro | TI = Texas Instruments | \*Mfr. Varies

RoHS compliant product    + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 190.

## A/D & D/A Converters (Continued)

\*Web Code: QAG

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
1252488	NSC	ADC0838CCN/NOPB	DIP-20	A/D, 8-bit serial, 5V, 32 $\mu s$	\$2.75	\$2.25	\$1.75
290538	TI	TLC0832CD	SOIC-8	A/D, 8-bit, 3V, 32 $\mu s$	2.49	2.25	1.75
288681	TI	THS1030IDW	SOIC-28	A/D, 10-bit, 3-5.5V, 30Msps	5.95	4.95	—
288729	TI	THS1031IPW	TSSOP-28	A/D, 10-bit, 3-5.5V, 30Msps	6.95	5.49	—
1748897	LTC	LTC1403AIMSE-1	MSOP-10	A/D, 14-bit, 2.8Msps samp ADC	14.95	12.95	—
289001	TI	TLC1541CDW	SOP-20	A/D, 10-bit, 5V, 32Ksps	4.95	4.25	—
289019	TI	TLC1541CN	DIP-20	A/D, 10-bit, 5V, 32Ksps	4.95	4.49	—
289078	TI	TLC1542CDW	SOP-20	A/D, 10-bit, 5V, 26 $\mu s$ , 11-ch	3.95	2.75	—
289107	TI	TLC1542CN	DIP-20	A/D, 10-bit, 5V, 26 $\mu s$ , 11-ch	3.95	3.49	—
242296	TI	TLC1543CN	DIP-20	A/D, 10-bit, 5V, 26 $\mu s$ , 11-ch	3.49	3.25	2.75
289271	TI	TLC1543QDB	SSOP-20	A/D, 10-bit, 6.5V, 5V, 26 $\mu s$ , 11-ch	3.95	3.49	2.95
289300	TI	TLC1543QDW	SOIC-20	A/D, 10-bit, 6.5V, 5V, 26 $\mu s$ , 11-ch	3.95	3.49	2.95
288593	TI	PCM1800E	SSOP-24	A/D, 20-bit, 5V, 32-48KHz, 2-ch	3.49	3.25	—
288622	TI	PCM1801U	SOIC-14	A/D, 20-bit, 5V, 32-48KHz, 2-ch	3.95	3.49	3.25
289422	TI	TLC2543CDW	SOIC-20	A/D, 12-bit, 5V, 10 $\mu s$ , 11-ch	6.95	5.95	—
289473	TI	TLC2543CDB	SSOP-20	A/D, 12-bit, 5V, 10 $\mu s$ , 11-ch	7.95	5.95	—
290634	TI	TLV2543CDW	SOIC-20	A/D, 12-bit, 3.3V, 10 $\mu s$ , 11-ch	7.95	5.95	—
290669	TI	TLV2543CN	DIP-20	A/D, 12-bit, 3.3V, 10 $\mu s$ , 11-ch	7.95	5.95	—
288016	MCH	MCP3302-CI/SL	SOIC-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch	2.95	2.49	—
288024	MCH	MCP3302-CI/ST	TSSOP-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch	2.49	2.35	2.15
43748	+	7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 9V	2.25	1.95	1.75
43756	+	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, $\pm 5V$	2.49	2.25	1.95
875683	INS	ICL7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED, 6V	2.95	2.75	2.59
43764	+	7109CPL	DIP-40	A/D, 12-bit, 5V, 30sps, 1-ch	3.95	2.25	—
290263	INS	ICL7135CPI	DIP-28	A/D, 4 1/2-digit BCD output, 5V	2.95	2.75	2.45
1795108	ADI	AD9240ASZ	MQFP-44	A/D, 14-bit, flash method, parallel	29.95	26.95	—
115158	ADI	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3 $\mu s$ , 1-ch	12.95	11.75	10.49
1944581	SAM	KDA0408	DIP-42	D/A, 8-bit, 5V, 60Msps, triple	.49	.39	.35
14904	NSC	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.49	1.19	.89
14947	NSC	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns	1.65	1.25	.95
14963	NSC	DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu s$	4.95	4.25	3.49
128186	NSC	DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1 $\mu s$	2.95	2.49	1.95
290781	TI	TLV5604ID	SOIC-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch	5.95	4.75	—
290790	TI	TLV5604IPW	TSSOP-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-ch	5.95	4.75	—
290853	TI	TLV5613IPW	TSSOP-20	D/A, 12-bit, 2.7-5.5V, 3-7 $\mu s$ , 1-ch	5.95	4.95	3.75
290933	TI	TLV5614CPW	TSSOP-16	D/A, 12-bit, 2.7-5.5V, 5.5-20 $\mu s$ , 4-ch	10.95	9.95	—
289836	TI	TLC5620CN	DIP-14	D/A, 8-bit, 5V, 1MHz, 4-ch	2.49	1.95	—
824561	TI	TLC7226CN	DIP-20	D/A, 8-bit, quad	3.49	2.95	—
296690	ADI	AD7226KN	DIP-20	D/A, 8-bit, 2-12.5V, 4 $\mu s$ , 4-ch	15.95	13.95	11.95
1783887	ADI	AD7398BRU2	TSSOP-16	D/A, 12-bit, quad serial in	15.95	13.95	—
290052	TI	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	2.75	2.49	1.95
287380	ADI	AD9760AR	SOIC-28	D/A, 10-bit, 3-5V, 125Msps	5.95	3.95	—
287443	ADI	AD9832BRU	TSSOP-16	Direct digital syn., 3-5V, 25MHz	5.95	4.49	—

## Op Amps

\*Web Code: WAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
27852	+	OP07CP	DIP-8	Ultra-low offset voltage	\$ .75	\$ .65	\$ .55
252988	+	OP07DP	DIP-8	Very low offset single bipolar	.69	.59	.49
23106	+	LM10CLN	DIP-8	Low voltage (1.1 volt)	2.75	2.49	1.75
120715	+	LM10CN	DIP-8	Op amp and voltage reference	2.49	2.15	1.55
1062114	TI	TL026CP	DIP-8	Diff. high-freq. amp. w/ AGC	.49	.39	.25
1807439	ADI	OP27AZ/883C	DIP-8	Low noise precision op amp	34.95	29.95	—
275805	TI	OPA27GP	DIP-8	Ultra-low noise precision	2.19	2.05	1.95
275784	TI	OPA27GU	SOIC-8	Ultra-low noise precision	2.95	1.75	1.59
115300	+	OP27EP	DIP-8	Low noise precision op amp	3.05	3.49	3.25
115318	+	OP27GP	DIP-8	Low noise prec. (-40° to 80°C)	2.49	1.95	1.59
1944812	ST	TL27L2IN	DIP-8	Prec. very low pwr CMOS dual	.49	.39	.25
253059	+	TL032CD	SOIC-8	Enhanced JFET low power/offset	.69	.59	.49
214068	+	TL034CN	DIP-14	Enhanced low power/offset	.89	.79	.75
821676	TI	TL051IP	DIP-8	Enhanced JFET low offset	.39	.35	.25
33187	+	TL071CP	DIP-8	Low noise JFET op amp	.29	.25	.22
213073	+	TL072ACP	DIP-8	Low noise JFET input op amp	.59	.49	.39
33195	+	TL072CP*	DIP-8	Low noise JFET dual op amp	.25	.22	.19

\*10 pcs. included in Linear cabinet kit, pg 16

Continued on next page





## Op Amps (Continued)

★ Web Code: WAD

Part No.	Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
213129	+	TL052ACP	DIP-8	Enh. JFET low offset op amp	\$1.25	\$ .95	\$ .85
33216	+	TL074CN*	DIP-14	Low noise JFET quad op amp	.39	.35	.29
1063935	TI	TL074CDE4	SOIC-14	Low noise JFET input op amp	.25	.19	.15
278328	TI	TL074CN	DIP-14	Wide-band, high-output drive	1.75	1.49	1.15
213057	+	TL081ACP	DIP-8	JFET input, low offset w/ control	.59	.49	.39
33232	+	TL081CP	DIP-8	JFET input, offset control	.35	.29	.25
214076	+	TL082ACP	DIP-8	JFET input, low offset	.35	.29	.25
253198	+	TL082BCP	DIP-8	JFET input op amp., lowest offset	.49	.39	.35
33241	+	TL082CP*	DIP-8	JFET input dual op amp.	.35	.29	.25
760034	TI	TL082CDR	SOIC-8	JFET input op amp	.25	.19	.15
214084	+	TL084ACN	DIP-14	JFET input op amp.	.45	.39	.35
193535	+	TL084CD	SOIC-14	JFET input quad op amp.	.29	.25	.22
33267	+	TL084CN*	DIP-14	JFET input quad op amp.	.29	.25	.22
242000	+	TLC274ACN	DIP-14	Quad precision op amp, low offset	.59	.49	.45
312784	+	TLC277CD	SOIC-8	LinCMOS prec. dual op amp, low offset	1.49	1.25	.99
245665	+	LM301AH	TO-5/8	Operational amplifier	2.15	1.83	1.73
212151	+	LM301AN	DIP-8	Operational amplifier	.39	.35	.29
245673	+	LM308AH	TO-5/8	Precision op amplifier	4.95	4.49	3.95
23464	+	LM308N*	DIP-8	Precision op amplifier	6.95	6.25	5.49
23608	NSC	LM318N	DIP-8	Precision high speed	.89	.79	.69
212169	+	LM324AN	DIP-14	Low power quad, impr. offset	.35	.29	.25
838233	NSC	LM324AN/NOPB	DIP-14	Low power quad op amp	1.19	.99	.69
86721	+	LM324D	SOIC-14	Low power quad op amplifier	*	.12	.09
23683	+	LM324N**	DIP-14	Low power quad op amp	.29	.25	.19
826671	TI	LM324NE4	DIP-14	Quad op amp	.29	.25	.22
838284	NSC	LM324N/NOPB	DIP-14	Low power quad op amp	.89	.79	.59
22904	+	LF347N	DIP-14	Quad JFET input (wide band)	.49	.45	.35
23915	+	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.35	.29	.25
22912	+	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
901811	TI	LF353DR	SOIC-8	JFET input dual op amp	.25	.15	.12
22939	+	LF353N*	DIP-8	Dual BIFET (comp w/ TL082CP)	.35	.29	.25
901853	TI	LF353P	DIP-8	JFET input dual, C-temp	.45	.35	.29
22971	NSC	LF356N*	DIP-8	JFET input (wide band)	.99	.79	.59
838389	NSC	LF356N/NOPB	DIP-8	JFET input (wide band)	.79	.69	.49
22998	+	LF357N	DIP-8	JFET input (wide band)	2.95	2.75	2.49
120862	+	LM358AN	DIP-8	Low power dual (improved 358N)	.25	.22	.19
839332	NSC	LM358AN/NOPB	DIP-8	Low power dual op amp	.99	.79	.59
23966	+	LM358N*	DIP-8	Low power dual op amplifier	.25	.22	.19
839367	NSC	LM358N/NOPB	DIP-8	Low power dual op amp	.99	.79	.59
1944732	ST	LS404CN	DIP-14	High performance quad	.49	.39	.25
23018	+	LF411CN*	DIP-8	Low offset drift JFET input	.99	.89	.69
835500	NSC	LF411CN/NOPB	DIP-8	Low-offset, low-drift JFET input	1.25	.99	.79
23026	+	LF412CN*	DIP-8	Low offset drift JFET input dual	.69	.59	.49
193640	+	LF412C	SOIC-8	Low offset drift JFET input dual	.49	.35	.25
106681	+	LF442CN	DIP-8	Dual low power JFET input	1.25	1.05	.85
835542	NSC	LF442CN/NOPB	DIP-8	Dual low power JFET input	1.49	1.29	.99
119992	+	LF444CN	DIP-14	Quad low power JFET input	1.75	1.49	1.05
835569	NSC	LF444CN/NOPB	DIP-14	Quad low power JFET input	1.85	1.59	1.09
276613	MAX	MAX474CSA	SOIC-8	Dual 10MHz single supply op amp	3.95	2.95	—
905977	TI	OPA551FAKTWT	DDPAK-7	High volt. high current op amp	3.95	3.75	3.49
311239	MCH	MCP6S21-I/P	DIP-8	1-ch PGA low-gain sgle-ended rail-to-rail I/O	1.49	1.15	—
311255	MCH	MCP6S22-I/P	DIP-8	2-ch PGA low-gain sgle-ended rail-to-rail I/O	1.59	1.39	—
313314	ADI	AD626AR	SOIC-8	Low-cost sgle supply diff amplifier	4.95	4.49	—
311221	MCH	MCP6S28-I/P	DIP-8	8-ch prog. low-gain sgle-ended rail-to-rail I/O	2.49	2.45	—
143976	+	LMC660CN	DIP-14	CMOS quad operational amplifier	1.75	1.45	.95
120926	+	LM675T	TO-220/5	Power op amplifier	5.49	4.75	3.95
24491	+	LM733CN	DIP-14	Differential amplifier	1.09	.99	.89
24521	+	LM741CH	TO-5/8	Op amplifier	4.95	4.49	3.95
24539	+	LM741CN**	DIP-8	Op amplifier	.29	.25	.22
24540	+	LM741CN	DIP-8	Op amplifier	.25	.22	.19
840763	NSC	LM741CN/NOPB	DIP-8	General purpose op amp	.79	.59	.45

\*10 pcs./ \*\*20 pcs. in Linear cabinet kit, pg 16

## Op Amps (Continued)

★ Web Code: WAD

Part No.	Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
830522	TI	UA741CP	DIP-8	Gen. purp. op amp	\$ .29	\$ .25	\$ .22
830549	TI	UA741CPE4	DIP-8	Gen. purp. op amp	.29	.25	.22
24563	+	LM747CN	DIP-14	Dual 741 op amplifier	.79	.69	.59
239222	+	LTC1001CN8	DIP-8	Precision op amp	2.75	2.49	2.09
239169	+	LT1013CP	DIP-8	Dual precision op amplifier	1.15	.95	.79
239177	+	LT1014DN	DIP-14	Quad precision op amplifier	3.75	3.25	2.59
23131	+	LM1458N*	DIP-8	Dual op amplifier	.35	.29	.25
903509	TI	MC1458P	DIP-8	Dual gen. purp. op amp	.39	.29	.25
310236	TI	TLE2022CD	SOIC-8	Excal hi spd LP dual prec op amp	1.45	1.25	1.05
823525	TI	TLC2272AIP	DIP-8	Advanced LinCMOS® rail-to-rail	1.19	1.09	1.05
1085819	TI	TLC2272CP	DIP-8	Advanced LinCMOS® rail-to-rail	.99	.89	.79
761598	TI	TLV2381IDBVT	SOT-23/5	µPwr rail-to-rail input & output op amp	1.25	1.05	.85
1944839	+	TLV2772CP	DIP-8	Hi slew rate r-r output, w/ shutdown	.49	.39	.25
121005	+	LM2904N	DIP-8	Low power dual op amplifier	.25	.19	.15
12116	+	CA3080E	DIP-8	Op transconductance amp.	3.95	3.75	3.49
12183	+	CA3130E	DIP-8	CMOS op amplifier	1.19	1.09	.89
12204	+	CA3140E	DIP-8	Bi-MOS op amplifier	.99	.89	.79
24168	+	LM3900N	DIP-14	Quad amplifier	.75	.65	.55
278150	TI	THS4032CD	SOIC-8	100MHz low noise hi-speed amp.	4.95	4.25	—
278176	TI	THS4082CD	SOIC-8	175MHz LP hi-speed amp.	3.95	3.59	—
29356	+	CR4136N	DIP-14	Quad op amp. (XR4136)	.89	.79	.69
251125	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar	.29	.25	.22
908246	TI	RC4558DR	SOIC-8	Dual gen. purp. op amp	*	.12	.09
908289	TI	RC4558P	DIP-8	Dual gen. purp. op amp	.39	.35	.25
27385	+	NE5532*	DIP-8	Dual low noise op amplifier	.29	.25	.22
903939	TI	NE5532ADR	SOIC-8	Dual low noise op amp, C-temp	.25	.19	.15
252970	+	NE5532AP	DIP-8	Dual lower noise op amp.	.65	.55	.45
27406	+	NE5534	DIP-8	Low noise op amplifier	.65	.55	.45
904026	TI	NE5534AP	DIP-8	Low noise op amplifier	.95	.85	.69
302121	NSC	LM6132AIM	SOIC-8	Dual LP r-r in/out, 10MHz, lower VOS	2.95	2.05	—
302076	NSC	LM6134BIN	DIP-14	Quad LP r-r in/out, 10MHz	3.49	2.95	2.05
302068	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	3.95	2.95	2.25
301989	NSC	LM6152ACM	SOIC-8	Dual r-r in/out, 75MHz GBW	3.49	2.95	2.49
301874	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	2.95	2.49	1.95
301436	NSC	LMC6442IM	SOIC-8	Dual ppwr r-r output single supply	1.95	1.75	1.25
301364	NSC	LMC6442IN	DIP-8	Dual ppwr r-r output single supply	1.95	1.75	1.35
126906	NSC	LMC6462AIN	DIP-8	µpwr r-r I/O CMOS op amp., lower VOS	2.95	2.49	1.75
267223	NSC	LMC6482IN	DIP-8	CMOS dual r-r I/O op amp.	1.49	1.25	.85
126893	NSC	LMC6482AIN	DIP-8	CMOS dual r-r I/O, lower VOS	2.05	1.55	1.29
301356	NSC	LMC6484AIN	DIP-14	CMOS quad r-r I/O, lower VOS	3.49	2.75	2.09
301751	NSC	LM7171BIM	SOIC-8	Hi speed hi output current volt feedback	1.95	1.55	—
804682	MAX	ICL7621DCSA	SOIC-8	Dual low power op amp	1.95	1.49	—
1789816	ADI	AD8022ARMZ	MSOP-8	Dual hi speed low noise	3.95	3.75	3.35
192532	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.75	1.49	1.19
192533	NSC	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.85	1.59	1.29
1944775	ON	MC33174VP	DIP-14	Single supply 3V-44V op amp.	.49	.35	.25
871586	ON	MC33204P	DIP-14	Low voltage, rail-to-rail	.79	.59	.35
251061	ON	MC34072P	DIP-8	Single supply 3V-44V op amp.	.75	.65	.55

\*10 pcs. in Linear cabinet kit, pg 16

## Linear Series

★ Web Code: FAD

Part No.	Mfr.	Product No.	Pkg	Description	1 10 100		
					1	10	100
25751	+	MF10CCN	DIP-20	Gen. purpose dual active filter	\$4.49	\$3.49	\$2.59
16301	+	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)	5.95	5.49	4.95
239281	+	DG201BDJ	DIP-16	Quad analog switch	1.29	1.19	1.09
239329	+	DG211CJ	DIP-16	SPST quad ch. analog switch	1.95	1.75	1.49
1341966	TI	L293DNE	DIP-16	Quad half-H drivers, I-temp	2.39	2.15	1.59
1342011	TI	L293NE	DIP-16	Quad half-H drivers, C-temp	2.39	2.15	1.59
1950876	CAL	CWB309	DIP-16	Quad mono CMOS/DMOS analog sw.	.99	.89	.59
23721	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.25	1.75	1.39
838372	NSC	LM331N/NOPB	DIP-8	Prec. volt-to-freq. convr., C-temp	2.39	1.89	1.49

Continued on next page

\* ADI = Analog Devices | CAL = CALogic | MAX = Maxim Semiconductor | MCH = Microchip | NSC = National Semiconductor | ON = ON Semi | ST = ST Micro | TI = Texas Instruments | + Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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## Linear Series (Continued)

\*Web Code: FAD

Part No.	*Mfr.	Product No.	Pkg/Pins	Description	1	10	100
245446	MAX	MAX301CPE	DIP-16	Precision dual hi speed analog swi. ....	\$2.95	\$2.25	—
245456	MAX	MAX301CSE	SOIC-16	Precision dual hi speed analog sw. ....	3.49	2.75	—
23739	NSC	LM334Z	TO-92/3	Adjust current source .....	.69	.59	.49
23771	NSC	LM336Z-2.5	TO-92/3	Voltage reference (2.5V) .....	.25	.22	.19
297676	NSC	LM336BZ-5.0	TO-92/3	5V voltage reference diode .....	.95	.85	.75
120889	♦	LM385BZ-2.5	TO-92/3	Volt. ref. diode (2.5V ±1.5%) .....	.39	.35	.29
24117	♦	LM385Z-1.2	TO-92/3	Microprw volt. ref. diode (1.2V) .....	.49	.39	.29
23000	♦	LF398N	DIP-8	Sample and hold circuit .....	1.49	1.19	.89
833969	NSC	LF398N/NOBP	DIP-8	Monolithic sample & hold circuits ...	1.59	1.25	.95
309833	♦	DG403DJ	DIP-16	Dual SPDT & SPDT analog switch.....	2.95	2.75	2.49
272161	♦	DG407DJ	DIP-28	Dual 8-ch multiplexer/demux. ....	5.49	4.95	4.49
256532	♦	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer .....	1.25	1.15	1.05
288243	ADI	DG409BN	DIP-16	Dual 4-ch multiplexer/demultiplexer ...	3.95	3.25	—
243643	♦	DG411DJ	DIP-16	Quad SPST (NC) analog sw. ....	.99	.79	.69
256516	♦	DG412DJ	DIP-16	Quad SPST (NO) analog sw. ....	1.49	1.25	.85
674398	VSH	DG413DJ	DIP-16	Imprvd quad SPST (2NO&2NC) ana. sw. ....	3.95	3.75	3.49
279540	♦	DG419DJ	DIP-8	Dual SPST (NO/NC) analog switch .....	1.75	1.55	1.45
33347	♦	TL431CLP	TO-92/3	Program precision reference .....	.25	.15	.12
1798261	ADI	ADG451BRZ	SOIC-16	Analog switch .....	3.25	2.75	—
33355	♦	TL494CN	DIP-16	Contrl circuit pulse-width-modulated ...	.39	.29	.25
840579	NSC	LM555CN/NOBP	SOIC-8	Timer .....	1.19	.89	.65
27422	♦	LM555CN**	DIP-8	Timer (MC1455P/NE555V) .....	.25	.19	.17
27423	♦	LM555CN*	DIP-8	Timer (MC1455P/NE555V) .....	.25	.22	.19
840608	NSC	LM555CN/NOBP	DIP-8	Timer .....	1.25	.85	.65
126797	♦	LM555CN*	DIP-8	CMOS timer .....	.79	.69	.59
841571	NSC	LM555CN/NOBP	DIP-8	CMOS timer .....	1.49	1.15	.85
904051	TI	NE555D	SOIC-8	Precision timer .....	.29	.25	.22
890091	ST	NE555N	DIP-8	Gen. purp. single bipolar timer .....	.29	.25	.22
904085	TI	NE555P	DIP-8	Precision timer .....	.35	.25	.22
761272	TI	TL555CP	DIP-8	LinCMOS™ timer, C-temp .....	.55	.45	.35
761301	TI	TL555IP	DIP-8	LinCMOS™ timer .....	.65	.49	.39
24328	♦	LM556N*	DIP-14	Dual 555 timer .....	.29	.25	.22
24329	♦	LM556N	DIP-14	Dual 555 timer .....	.35	.29	.25
904114	TI	NE556N	DIP-14	Dual precision timer .....	.39	.29	.25
27457	ST	NE558N	DIP-16	Quad timer (NE558C) .....	1.49	1.35	1.19
27473	ST	NE564N	DIP-16	High freq. phase locked loop .....	2.75	2.49	2.25
24352	♦	LM565N	DIP-14	Phased locked loop .....	2.95	2.75	2.49
24395	♦	LM567CN	DIP-8	Tone decoder .....	.99	.89	.79
246650	NSC	LM567CN	DIP-8	Tone decoder (CMOS) .....	1.49	1.25	.95
27490	ST	NE571N	DIP-16	Compander, subscriber .....	4.49	4.25	3.95
287785	ADI	AD581KH	TO-5/3	10V volt ref hi prec. 10mV tolerance ..	8.95	7.95	7.25
288155	ADI	AD584KN	DIP-8	Prog volt. ref. 11mV tol. ....	8.95	7.95	—
918436	INS	SA612AD/01	SOIC-8	Dbl balanced mixer & oscillator .....	1.95	1.49	1.25
115174	ADI	AD620AN	DIP-14	Low-cost instrument amp. ....	6.49	5.25	4.25
1798982	ADI	ADG623BRMZ	SOIC-10	Analog switch .....	1.95	1.75	1.49
1781312	ADI	AD633ANZR	DIP-8	Analog multiplier .....	7.45	6.25	5.95
115182	ADI	AD633JN	DIP-8	Low-cost analog multiplier .....	6.95	6.25	5.35
1783764	ADI	AD737JN	DIP-8	RMS to DC converter .....	5.25	4.75	—
316515	MCH	TC962CPA	DIP-8	High current charge pump DC-DC con. ....	1.95	1.75	—
239265	♦	LT1004CZ-2.5	TO-92	2.5V, micropower volt reference .....	.39	.35	.25
312258	MAX	MAX1044CPA	DIP-8	Switched capacitor volt converters ..	2.49	2.19	1.85
1742161	LTC	LTC1258CS-2.5	MSOP-8	1.4A, 500kHz step down switch reg. ....	5.95	5.75	—
118578	♦	MC1495L	DIP-14	Linear 4 quadrant multiplier .....	9.95	8.95	7.95
23211	♦	LM1496N	DIP-14	Balanced mod/demodulator .....	.59	.49	.39
1944821	♦	P1803AC	TO-220	Balanced three-chip sidactor .....	1.49	1.25	.99
34278	♦	ULN2003A*	DIP-16	Hi-volt/curr. darl. transistor array .....	.25	.22	.19
193826	♦	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array .....	.45	.35	.29
1147178	TI	ULN2003AN	DIP-16	Hi-volt/curr. darlington trans. array .....	.49	.45	.35
34294	♦	ULN2004AN	DIP-16	Hi-volt/curr. darl. transistor array .....	.39	.35	.29
700630	TI	ULN2004AN	DIP-16	Hi-volt/curr. darlington trans. array .....	.49	.45	.35
34972	EXR	XR2206CP	DIP-16	Monolithic function generator ...	5.49	4.95	4.49
34999	♦	XR2211	DIP-14	FSK demodulator/tone decoder .....	1.95	1.75	1.49
280073	TI	TLE2426CLP	TO-92/3	Rail splitter prec. virtual ground .....	1.09	.99	.95
34315	♦	ULN2803A*	DIP-18	Hi-volt/curr. darl. transistor array ...	.45	.39	.35

\*10 pcs./ \*\*20 pcs. in Linear kit, right

\*MUX/DEMUXs Available Online — Enter Web Code RAB

## Linear Series (Continued)



\*Web Code: FAD

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
34316	♦	ULN2803A	DIP-18	Hi-volt/curr. darl. transistor array .....	\$1.55	\$1.49	\$1.45
700648	TI	ULN2803ADW	SOIC-18	Darlington transistor array, I-temp .....	.65	.55	.49
700664	TI	ULN2803AN	DIP-18	Darlington transistor array, I-temp ...	1.15	.95	.85
890787	ST	ULN2804A	DIP-18	8 darlington array w/ common emitter ...	.55	.49	.45
123625	NSC	LM2907N-8	DIP-8	Frequency to volt converter .....	1.75	1.35	1.09
23317	NSC	LM2907N	DIP-14	Frequency to volt converter .....	1.75	1.45	1.05
23350	NSC	LM2917N-8	DIP-8	Freq. to volt conv. w/ zener .....	1.75	1.45	1.15
23341	NSC	LM2917N-14	DIP-14	Freq. to volt conv. w/ zener .....	1.75	1.45	1.25
12079	♦	CA3046N	DIP-14	NPN transistor array .....	.89	.79	.69
12159	♦	CA3086N	DIP-14	Transistor array NPN .....	1.95	1.75	1.49
1797605	ADI	ADG3123BRUZ	TSSOP-20	8-channel CMOS logic .....	4.95	4.25	3.55
31974	♦	SG3524N	DIP-16	Regulating pulse width modulator .....	.65	.55	.45
25275	♦	MC4044P	DIP-14	Frequency phase detector .....	6.95	5.95	5.25
29372	EXR	XR4151CP-F	DIP-8	Volt to frequency converter .....	1.75	1.55	1.35
698509	ST	M48202-150PC1	DIP-24	5V, 150ns, 16k zeropower™ SRAM .....	7.95	7.49	6.75
698445	ST	M48T12-150PC1	DIP-24	5V, 150ns, 16k timekeeper SRAM .....	13.95	12.95	11.95
698453	ST	M48T18-150PC1	DIP-28	5V, 150ns, 64k timekeeper SRAM .....	16.95	14.95	13.95
1950868	CAL	CWB5341	DIP-14	Dual mono CMOS/DMOS analog sw. ....	.99	.89	.79
1944759	NXP	SAA6579	DIP-16	Radio data system demodulator .....	.99	.35	.25
312135	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con. ....	1.95	1.75	1.25
288163	ADI	AD7501KN	DIP-16	8 channel analog multiplexer .....	9.95	8.95	6.95
51140	♦	75551PA	DIP-8	CMOS timer .....	.39	.35	.29
875712	INS	ICM75551PA	DIP-8	Gen. purp timer, I-temp. ....	.45	.39	.35
51174	♦	7660CPA	DIP-8	CMOS volt convtrr (+5 to ±5V) .....	.75	.59	.49
316646	♦	ICL7662CPA	DIP-8	Volt convtrr., 20Vin, 4.5-20V out .....	2.75	2.25	2.15
1083476	TI	TL7712ACP	DIP-8	Supply voltage supervisor .....	.49	.39	.25
316531	MCH	TC9400COD	SOIC-14	Volt freq/freq volt converter .....	5.95	4.59	—
316540	MCH	TC9400CPD	DIP-14	Volt freq/freq volt converter .....	5.95	4.25	—
25021	ON	MC14411P	DIP-24	Bit rate frequency generator .....	4.95	4.49	4.25
25064	ON	MC14490P	DIP-16	Hex contact bounce eliminator .....	4.25	3.95	3.49
118586	ON	MC145151P	DIP-28	Parallel input PLL freq synthesizer ..	5.95	5.49	4.95
1054684	TI	SN754410NE	DIP-16	Quad half-H drivers .....	1.55	1.35	1.09

## Linear IC Kit

SAVE \$51



10 each:	TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LM555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003A, ULN2803A, NE5532N, 7808T, 78L12, 7815T, 7905T, 7912CT, 7915CT			
20 each:	LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05, 7812T			
84988		84988		
Part No.	Description	Wt. (lbs.)	1	
84988	480 pcs. (40 types) analog IC kit	6.0	\$189.95	\$169.95
130411	Refill for 84988 (480 pcs.)	1.3	174.95	159.95

## Temperature Sensors

\*Web Code: WAN

Part No.	*Mfr.	Product No.	Pkg/Pins	Description	1	10	100
107094	NSC	LM34CZ	TO-92/3	Prec temp sensor (-40° to +230°F) .....	\$4.95	\$4.49	\$4.25
193480	NSC	LM34DM	SOIC-8	Prec temp sensor (-55° to 300°F) .....	1.95	1.49	1.19
155192	NSC	LM34DZ	TO-92/3	Prec temp sensor (+32° to +212°F) ..	1.95	1.49	1.29
107107	NSC	LM35CZ	TO-92/3	Prec temp sensor (-40° to 110°C) .....	4.75	3.75	2.95
192217	NSC	LM35DT	TO-220/3	Prec temp sensor (-55° to 150°C) ....	2.49	1.95	1.55
155740	NSC	LM35DZ	TO-92/3	Prec temp sensor (0° to +100°C) .....	1.49	1.19	.89
301604	NSC	LM74CIBP-5	µSMD-5	12-bit + sign digital temp sensor.....	1.95	1.75	1.25
301621	NSC	LM74CIM-3	SOIC-8	12-bit + sign digital temp sensor.....	1.49	1.25	.95
282028	NSC	LM135H	TO-46	Precision temperature sensor .....	6.95	5.95	—
120820	♦	LM335AZ	TO-92/3	Precision temp sensor .....	.69	.59	.55
23755	♦	LM335Z	TO-92/3	Volt mode temp sensor .....	.75	.59	.55
241939	ADI	AD590JH	TO-52/3	Two terminal IC temp transducer .....	6.95	6.25	5.25
1780571	ADI	AD592ANZ	TO-92/3	Two terminal IC temp transducer.....	4.75	3.85	3.25
313306	ADI	AD594AQ	DIP-14	Thermocouple amp for iron-constantan ..	11.75	10.59	10.25
313293	ADI	AD595AQ	DIP-14	Thermocouple amp for chromel-alumel ..	11.75	10.59	10.25
302551	DAL	DS18S20	TO-92/3	High-prec. 1-wire digital thermo ....	3.49	2.59	1.95

\*Pressure Sensors Available Online — Enter Web Code JBV

\*ADI = Analog Devices | CAL = Calogic | DAL = Dallas | EXR = EXAR Corp | LTC = Linear Tech | MAX = Maxim | NSC = National | NXP = NXP/Philip | ON = ON Semi | ST = ST Micro | TI = Texas Ins | VSH = Vishay | ♦ Mfr Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Allegro Hall Effect Sensor \* Web Code: REB

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1718743	A1302EUA-T	SIP-3	Continuous-time ratiometric linear sensor	\$ .95	\$ .85	\$ .79

## MICROCHIP Digital Potentiometers \* Web Code: JBP

Part No.	Mfr. Part No.	Pkg.	Description	1	10	100
1778367	AD5282BRU200	TSSOP-16	Dual, 256 position, digital pot	\$3.95	\$3.49	\$3.15
2044373	MAX5402EUA	8uMAX	256-Tap, uPot, low drift	2.55	2.45	2.35
241744	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI digital pot	1.75	1.65	1.55
241752	MCP42010-I/P	DIP-14	10kΩ, 256 steps, 2-ch SPI digital pot	2.09	1.95	1.59

## Voltage Regulators \* Web Code: TAC

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
23499	+	LM309K	T0-3/2	5V, 1A (0°C to +125°C)	\$5.95	\$5.49	\$4.95
192268	NSC	LM317AT	T0-220/3	3-terminal adj. (1.2V-37V)	1.49	1.25	.89
837898	NSC	LM317AT/NOPB	T0-220/3	3-term. 1.5A output adj pos, I-temp	1.55	1.35	.95
898359	NSC	LM317EMP	SOT-223/4	3-term 1A output adj pos C-temp	.69	.55	.45
192276	NSC	LM317HVT	T0-220/3	3-terminal adj. (1.2V-57V)	2.25	1.75	1.35
837927	NSC	LM317HVT/NOPB	T0-220/3	3-term. 1A output adj pos, C-temp	2.49	1.95	1.45
23544	+	LM317K	T0-3/2	1.5A adj. pos. (1.2V-37V)	2.49	2.25	1.79
23552	+	LM317LZ	T0-92/3	100mA adj. pos. (1.2V-37V)	.29	.25	.22
898543	NSC	LM317LZ/NOPB	T0-92/3	Adjustable, 100mA positive	.49	.39	.35
23579	+	LM317T*	T0-220/3	1.5A adj. pos. (1.2V-37V)	.29	.25	.22
23580	+	LM317T	T0-220/3	1.5A adj. pos. (1.2V-37V)	.35	.29	.25
898800	NSC	LM317T/NOPB	T0-220/3	Adjustable, 1.5A positive	1.25	1.05	.85
23667	+	LM323K	T0-3/2	5V 3A positive	3.95	3.75	3.49
23798	+	LM337K	T0-3/2	1.5A/3 term adj. neg. reg.	3.49	3.25	2.75
296841	+	LM337LZ	T0-92/3	1.5A adj. pos. (1.2V-37V)	.79	.59	.45
23819	+	LM337T*	T0-220/3	1.5A/adj. neg. (-1.2V-37V)	.45	.35	.29
899520	NSC	LM337T/NOPB	T0-220/3	1.5A adjustable negative	1.75	1.39	1.05
23835	+	LM338K	T0-3/2	5A adj. pos. (1.2V-32V)	5.95	5.49	4.95
192284	NSC	LM338T	T0-220/3	5A adjustable	1.95	1.49	1.25
838621	NSC	LM338T/NOPB	T0-220/3	5A adjustable positive	2.25	1.75	1.35
900017	NSC	LM340T-5.0	T0-220/3	5V, 1A positive, I-temp	1.25	1.05	.85
23931	+	LM350K	T0-3/2	3A/3 term. adj. pos. (1.2V-33V)	5.49	4.95	3.95
23940	+	LM350T	T0-220/3	3A adjustable power	.69	.59	.49
276517	MAX	MAX637ACSA	SOIC-8	Preseltd output CMOS invert switch reg	4.95	4.49	2.95
24467	+	LM723CN*	DIP-14	Voltage regulator (2V-37V)	.35	.29	.25
301719	+	LM723H	T0-5/10	2V - 37V, 150mA adj.	4.49	3.95	3.75
298071	MAX	MAX755CSA	SOIC-8	-5V/adj. output. invert current mode PWM reg	2.95	2.49	1.49
107166	NSC	LM2936Z-5.0	T0-92/3	Ultra-low quiescent current 5V	2.25	1.75	1.39
51246	+	7805K	T0-3/2	5V 1A pos. (LM340K-5)	1.95	1.75	1.49
51262	+	7805T**	T0-220/3	5V 1A pos. (LM340T-5)	.29	.25	.19
51263	+	7805T	T0-220/3	5V 1A pos. (LM340T-5)	.29	.25	.22
924570	ST	L7805ACV	T0-220/3	5V, 1.5A pos.	.29	.25	.22
924609	ST	L7805CT	T0-3/2	5V, 1.5A pos.	2.95	2.75	2.49
924633	ST	L7805CV	T0-220/3	5V, 1.5A pos.	.45	.35	.29
902071	NSC	LM7805CT	T0-220/3	5V, 1A positive	1.09	.99	.89
786138	FSC	LM7805CT	T0-220/3	5V, 1A pos., I-temp	.35	.29	.25
797267	ON	MC7805ACTG	T0-220/3	5V, 1A pos., C-temp	.39	.35	.29
876125	ON	MC7805BTG	T0-220/3	5V, 1A pos., I-temp	.35	.29	.25
876221	ON	MC7805CT	T0-220/3	5V, 1A pos., C-temp	.35	.29	.25
876248	ON	MC7805CTG	T0-220/3	5V, 1A pos., C-temp	.35	.29	.25
51182	+	78L05**	T0-92/3	5V 100mA pos.	.25	.19	.17
51183	+	78L05	T0-92/3	5V 100mA pos.	.25	.22	.19
889428	ST	L78L05ACZ	T0-92/3	5V, 100mA pos.	.29	.25	.22
902291	NSC	LM78L05ACZ	T0-92/3	5V, 100mA positive	.59	.45	.35
973831	FSC	LM78L05ACZ	T0-92/3	5V, 100mA pos., I-temp	.25	.19	.17
1303290	NSC	LM78L05ACZ/NOPB	T0-92/3	3-terminal 5V, 100mA pos	.69	.55	.45
192233	+	78M05	T0-220/3	5V 500mA pos.	.25	.22	.19
902514	NSC	LM78M05CDT/NOPB	T0-252/3	3-terminal 5V positive	1.45	1.15	.85
51297	+	7806T	T0-220/3	6V 1A pos. (LM340T-6)	.35	.29	.25
51300	+	7808T*	T0-220/3	8V 1A pos. (LM340T-8)	.35	.29	.25
876791	ON	MC78L08ACPG	T0-92/3	8V, 100mA pos., C-temp	.25	.19	.15

\*10 pcs./ \*\*20 pcs. included in Linear kit

## Voltage Regulators (Continued) \* Web Code: TAC

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	* Order in multiples of 10		
					1	10	100
876352	ON	MC7809CT	T0-220/3	9V, 1A pos., C-temp	\$ .29	\$ .25	\$ .22
192225	+	78L09ACZ	T0-92/3	9V 100mA pos.	.25	.19	.17
51318	+	7812K	T0-3/2	12V 1A pos. (LM340K-12)	2.15	1.95	1.75
51334	+	7812T**	T0-220/3	12V 1A pos. (LM340T-12)	.25	.22	.19
51335	+	7812T	T0-220/3	12V 1A pos. (LM340T-12)	.25	.22	.19
889305	ST	L7812CV	T0-220/3	12V, 1.5A pos.	.29	.25	.22
902127	NSC	LM7812CT	T0-220/3	12V, 1A positive	1.05	.95	.85
876395	ON	MC7812BTG	T0-220/3	12V, 1A pos., I-temp	.39	.35	.29
876441	ON	MC7812CTG	T0-220/3	12V, 1A pos., C-temp	.39	.35	.29
51203	+	78L12*	T0-92/3	12V 100mA pos.	.25	.19	.17
902389	NSC	LM78L12ACZ	T0-92/3	3-terminal 12V positive	.39	.35	.29
192241	+	78M12	T0-220/3	12V 500mA pos.	.25	.19	.17
51369	+	7815K	T0-3/2	15V 1A pos. (LM340K-15)	1.75	1.49	1.25
51377	+	7815T*	T0-220/3	15V 1A pos. (LM340T-15)	.29	.25	.22
902151	NSC	LM7815CT	T0-220/3	3-terminal 15V	1.05	.95	.85
51414	+	7824T	T0-220/3	24V 1A pos. (LM340T-24)	.25	.22	.19
1131504	TI	UA78M33CKCSE3	T0-220/3	3.3V, 500mA, fixed po. regulator	.69	.59	.45
51238	+	78S40CN	DIP-16	1.25V-40V 1.5A switching reg	.69	.59	.39
51457	+	7905T*	T0-220/3	-5V 1A neg. (LM320T-5)	.29	.25	.22
902637	NSC	LM7905CT	T0-220/3	3-terminal -5V negative	1.49	1.15	.89
877179	ON	MC7905CTG	T0-220/3	-5V, 1A neg., C-temp	.35	.29	.25
51422	+	79L05	T0-92/3	-5V 100mA neg.	.25	.19	.17
877216	ON	MC7908CTG	T0-220/3	-8V, 1A neg., C-temp	.39	.35	.29
51481	+	7912T*	T0-220/3	-12V 1A neg. (LM320T-12)	.29	.25	.22
902661	NSC	LM7912CT	T0-220/3	3-terminal -12V negative	1.25	1.05	.75
877275	ON	MC7912CTG	T0-220/3	-12V, 1A neg., C-temp	.39	.35	.29
51431	+	79L12	T0-92/3	-12V, 100mA neg., volt reg	*	.12	.09
51502	+	7915T*	T0-220/3	-15V 1A neg. (LM320T-15)	.29	.25	.22
316945	MOT	MC34063AP1	DIP-8	1.5 step-up/down invert sw reg	.49	.39	.35
260259	NTE	UTE960	T0-220	+5V, 1A, fixed	1.75	1.67	1.57

\*10 pcs./ \*\*20 pcs. included in Linear kit, pg 16

## Simple Switcher Voltage Regulators \* Web Code: VAX

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10
					\$8.95	\$7.95
1728626	LTC	LT1070CT	T0-220/5	5A high eff switching reg	\$8.95	\$7.95
1742524	LTC	LT1959CS8#PBF	SOIC-8	4.5A, 500kHz step-down, C-temp	7.95	6.95
156566	+	LM2574N-5	DIP-8	5V step-down regulator	1.49	1.25
279603	NSC	LM2575HVT-12	T0-220	1A step down V-reg, high Vin range	1.95	1.75
279638	NSC	LM2575HVT-5.0	T0-220/5	1A step-down V-reg, hi Vin range	3.49	2.95
894817	NSC	LM2576T-5.0/LB03	T0-220/5	Simple switcher 3A step down, I-temp	1.95	1.25
192399	NSC	LM2576HVT-12	T0-220/5	3A step down V-reg, high Vin range	3.95	2.75
192381	NSC	LM2576HVT-5.0	T0-220/5	3A step down V-reg, high Vin range	5.49	4.49
192372	NSC	LM2576HVT-ADJ	T0-220/5	3A step-down V-reg, high Vin range	4.25	3.25
245569	+	LM2576T-5.0	T0-220/5	3A step-down voltage regulator	2.25	1.75
120977	+	LM2576T-ADJ	T0-220/5	3A step-down voltage regulator	1.45	1.05
300898	NSC	LM2586S-12	T0-263/7	3A flyback regulator with shutdown	4.95	4.25
300871	NSC	LM2586S-5.0	T0-263/7	3A flyback regulator with shutdown	4.95	4.25
300821	NSC	LM2586S-ADJ	T0-263/7	3A flyback regulator with shutdown	4.95	3.95
300919	NSC	LM2586T-ADJ	T0-220	3A flyback regulator with shutdown	5.49	4.95
300847	NSC	LM2588T-ADJ	T0-220	5A flyback regulator with shutdown	6.95	5.75
300732	NSC	LM2592HVT-3.3	T0-220	2A step down voltage regulator	4.95	4.49
300695	NSC	LM2594N-3.3	DIP-8	0.5A step down voltage regulator	2.95	2.49
310391	NSC	LM2596S-5.0	T0-263/5	3A step down voltage regulator	2.95	2.25
300265	NSC	LM2595S-ADJ	T0-263/5	1A step down voltage regulator	2.95	2.25
290642	NSC	LM2596T-5.0	T0-220/7	3A step down voltage regulator	2.95	2.49
290394	NSC	LM2599S-ADJ	T0-263/7	3A step down voltage regulator	4.49	3.75
312397	NSC	LM2636MTC	TSSOP-20	5-bit prog. synchronous buck reg	2.49	2.05
290749	NSC	LM2651MTC-3.3	TSSOP-16	1.5A high eff. synch switching reg	2.95	2.25
312389	NSC	LM2653MTC-ADJ	TSSOP-16	1.5A high eff synch switching reg	2.95	2.49
290765	NSC	LM2672N-5.0	DIP-8	5V high eff. 1A load	2.95	2.25
290888	NSC	LM2674M-ADJ	SOIC-8	Adj voltage high eff switcher	2.95	2.75
291012	NSC	LM2675N-ADJ	DIP-8	1A step down voltage reg power conv	2.95	2.25

\* FSC = Fairchild | LTC = Linear Technology | MAX = Maxim Semi | MOT = Motorola | NSC = National Semi | ON = ON Semi | ST = ST Micro | TI = Texas Instruments | + Mfr. Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Voltage Regulators & IC Sockets

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Low Drop-Out Voltage Regulators

\*Web Code: MBT

Part No.	*Mfr.	Product No.	Pkg./Pins	Description	1	10	100
299743	NSC	LM1084IT-ADJ	T0-220/3	5A low dropout adj. pos. ....	\$2.49	\$1.95	\$1.59
299735	NSC	LM1084IT-3.3	T0-220/3	5A low dropout 3.3V pos. ....	2.49	1.95	1.59
282757	+	LT1085CT	T0-220/3	3A low dropout adj./fixed pos. ....	1.25	.95	.75
302455	+	LM1085IT-ADJ	T0-220/3	3A low drop out adj. pos. volt. reg. ....	1.25	1.05	.95
192305	+	LM1086CT-3.3	T0-220/3	1.5A low dropout pos. (3.3V) ....	1.15	.85	.65
1729830	LTC	LT1086CT-3.3	T0-220/3	3.3V 1.5A LDO positive reg. ....	3.49	2.75	—
192313	+	LM1086CT-5.0	T0-220/3	1.5A low dropout pos. (5V) ....	1.75	1.49	1.25
835631	NSC	LM1086CT-ADJ/NOPB	T0-220/3	1.5A adj. LDO pos, C-temp ....	1.75	1.49	1.25
251782	NSC	LM1117MPX-ADJ	SOT-223/3	800mA low dropout linear ....	.89	.69	.59
242114	+	LM1117T-3.3	T0-220/3	800mA, 3.3V, LDO ....	.89	.79	.69
242115	NSC	LM1117T-3.3/NOPB	T0-220/3	800mA, 3.3V, LDO ....	1.45	1.19	.85
244152	+	LT1587CT-3.3	T0-220/3	3A 3.3V, LDO adj. reg. ....	1.95	1.75	1.49
897188	NSC	LM2937ET-3.3	T0-220/3	500mA, 3.3V LDO, I-temp ....	1.75	1.45	1.09
297810	NSC	LM2937ET-5.0	T0-220/3	500mA, 5V LDO ....	1.75	1.45	.95
291101	NSC	LM2937ET-10	T0-220/3	10V 500mA LDO regulator ....	.79	.69	.65
107182	+	LM2940CT-5	T0-220/3	5V LDO reg. (max. 45Vin) ....	1.35	1.05	.75
897381	NSC	LM2940CT-5.0/NOPB	T0-220/3	1A, 5V LDO pos ....	1.55	1.25	.95
192495	NSC	LM2940CT-12	T0-220/3	12V LDO reg. (max. 45Vin) ....	1.45	1.15	.85
837505	NSC	LM2940T-5.0/NOPB	T0-220/3	1A, 5V LDO, I-temp ....	1.45	1.15	.85
121064	+	LM2941CT	T0-220/5	1A LDO adjustable (45Vin) ....	1.45	1.15	.85
1944880	+	LP2950ACN	T0-92/3	100mA adj. LDO volt. reg. ....	.29	.25	.19
121101	+	LP2950ACZ-5.0	T0-92/3	Low power LDO 3V low % reg. ....	.69	.59	.49
266757	+	LP2950CZ-5.0	T0-92/3	100mA low pwr. LDO ....	.49	.39	.35
121110	+	LP2951ACP	DIP-8	Adjustable $\mu$ power volt-reg. ....	.49	.39	.25
1315492	ON	LP2951CN-3.0	DIP-8	3V, 100mA LP LDO (I-temp) ....	.39	.29	.25
192524	+	LM3940IT-3.3	T0-220/3	1A LDO for 5V to 3.3V ....	1.75	1.45	1.05
1326133	NSC	LP2985IM5-5.0/NOPB	SOP-5	150mA, 5V $\mu$ power low noise ultra reg. ....	.49	.39	.35
1119791	TI	TPS75701KT	T0-263	Fast transient response 3A, I-temp ..	4.49	4.25	3.75
700496	TI	TPS78625KT	T0-263	Ultra low noise, hi-PSRR 1.5A	2.95	2.25	—

Ⓢ Blue Part No. = Limited Quantity Available

\*Power Drivers & Modules Available Online — Enter Web Code REK

\*Switching Regulators Available Online — Enter Web Code DEN

## AMP DIP Low-Profile IC Sockets

\*Web Code: QAF

### Economy Ladder Style

- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating
- A: 15 $\mu$ " gold



- Dual wipe
- B: 60 $\mu$ " tin

Order in multiples of 10

Part No.	*Mfr.	Part No.	Pos.	Plating	Width (ins.)	10	100	500
683091	1-390261-1	6	B	0.3	.....	\$1.13	\$1.10	\$0.08
526299	390261-2	8	B	0.3	.....	.12	.09	.07
683104	1-390261-2	8	B	0.3	.....	.13	.10	.08
837679	2-640463-4	8	A	0.3	.....	.69	.59	.49
526192	390261-3	14	B	0.3	.....	.12	.09	.08
683112	1-390261-3	14	B	0.3	.....	.13	.10	.09
526205	390261-4	16	B	0.3	.....	.17	.11	.09
683121	1-390261-4	16	B	0.3	.....	.19	.12	.10
524584	2-640358-4	16	A	0.3	.....	.55	.45	.39
526213	390261-5	18	B	0.3	.....	.15	.14	.10
683139	1-390261-5	18	B	0.3	.....	.16	.15	.11
526221	390261-6	20	B	0.3	.....	.16	.15	.13
683147	1-390261-6	20	B	0.3	.....	.17	.16	.14
683163	1-390261-8	24	B	0.3	.....	.22	.20	.17
683198	1-390262-1	24	B	0.6	.....	.25	.21	.19
526248	390261-9	28	B	0.3	.....	.24	.22	.20
683171	1-390261-9	28	B	0.3	.....	.25	.23	.21
526256	390262-2	28	B	0.6	.....	.22	.19	.17
683201	1-390262-2	28	B	0.6	.....	.24	.22	.19
526272	390262-5	40	B	0.6	.....	.32	.29	.25
683227	1-390262-5	40	B	0.6	.....	.35	.33	.27

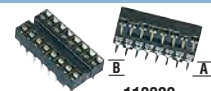
\*CA = Circuit Assembly | JVP = Jameco ValuePro | LTC = Linear Tech | NSC = National Semiconductor | ON = ON Semi | TI = Texas Instruments | + Manufacturer Varies

Ⓢ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Dual Wipe Solder Tail Low-Profile IC Sockets

\*Web Code: WAP

- Contact current: 1A
- Contact resistance: less than 5m $\Omega$
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000M $\Omega$
- Thru-hole lead length: .140" (A) • Body height: .188" (B)



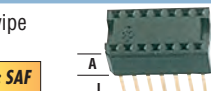
Order in multiples of 10

Part No.	*Mfr.	Product No.	Pins	Width (ins.)	10	100	1000
112193	JVP	6LPD $\mathcal{R}$	6	0.3	\$ .13	\$ .10	\$ .08
51571	✦	8LPD	8	0.3	.12	.09	.07
112206	JVP	8LPD $\mathcal{R}$	8	0.3	.13	.10	.08
37162	✦	14LP*	14	0.3	.12	.09	.08
689936	✦	ED14DT	14	0.3	.12	.09	.08
112214	JVP	14LPD $\mathcal{R}$	14	0.3	.13	.10	.09
37372	✦	16LP*	16	0.3	.10	.08	.06
37373	JVP	16LPD	16	0.3	.17	.11	.09
112222	JVP	16LPD $\mathcal{R}$	16	0.3	.19	.12	.10
38113	✦	18LP*	18	0.3	.14	.12	.09
689952	✦	ED18DT	18	0.3	.14	.12	.09
112231	JVP	18LPD $\mathcal{R}$	18	0.3	.16	.15	.11
38607	✦	20LP*	20	0.3	.12	.10	.08
112248	✦	20LPD	20	0.3	.16	.15	.13
38608	JVP	20LPD $\mathcal{R}$	20	0.3	.17	.16	.14
112256	✦	22SLPD	22	0.3	.17	.16	.14
39132	JVP	22LPD	22	0.4	.17	.16	.14
39378	✦	24SLPD	24	0.3	.21	.19	.16
112282	JVP	24SLPD $\mathcal{R}$	24	0.3	.22	.20	.17
112264	✦	24LPD	24	0.6	.23	.19	.17
112266	JVP	24LPD $\mathcal{R}$	24	0.6	.25	.21	.19
689961	✦	ED28DT	28	0.3	.24	.22	.20
112299	✦	28SLPD	28	0.3	.24	.22	.20
112300	JVP	28SLPD $\mathcal{R}$	28	0.3	.25	.19	.15
40300	✦	28LP*	28	0.6	.17	.13	.11
112272	✦	28LPD	28	0.6	.22	.19	.17
40301	JVP	28LPD $\mathcal{R}$	28	0.6	.24	.22	.19
137621	JVP	32SLPD $\mathcal{R}$	32	0.3	.29	.25	.22
689979	✦	ED32DT	32	0.6	.27	.23	.19
112301	JVP	32LPD $\mathcal{R}$	32	0.6	.29	.25	.22
41110	✦	40LP*	40	0.6	.23	.17	.13
41111	✦	40LPD	40	0.6	.32	.29	.25
112311	JVP	40LPD $\mathcal{R}$	40	0.6	.35	.33	.27
137622	✦	42LPD	42	0.6	.35	.33	.27
167396	JVP	48LPD	48	0.6	.39	.35	.35
112326	JVP	64LPD	64	0.9	.45	.39	.39

\*Single wipe

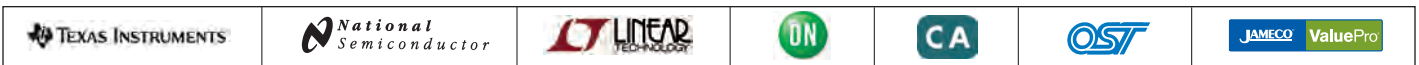
## 2 & 3 Level Wire Wrap IC Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Contact current: 1A • Contact resistance: <5m $\Omega$
- Sleeve material: brass
- Dielectric withstanding voltage: 300V
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000M $\Omega$
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Thru-hole lead length: .438" (L2); .638" (L3) • Body height: .300" (A)



Part No.	*Mfr.	Product No.	Pins	Width (ins.)	1	10	100
37218	CA	14TWW2 <i>R</i>	14	0.3 .....	\$2.25	\$1.95	\$1.75
37234	CA	14WW2 <i>R</i>	14	0.3 .....	3.25	2.95	2.75
196841	✦	14TWW3	14	0.3 .....	1.95	1.75	1.25
37437	CA	16TWW2 <i>R</i>	16	0.3 .....	2.49	2.25	1.95
37480	CA	16WW2 <i>R</i>	16	0.3 .....	3.49	3.25	2.95
75380	CA	20TWW2 <i>R</i>	20	0.3 .....	3.49	3.25	2.95
38675	CA	20WW2 <i>R</i>	20	0.3 .....	4.25	3.95	3.49
75416	CA	24TWW2	24	0.6 .....	3.49	3.25	2.95
39395	CA	24WW2 <i>R</i>	24	0.3 .....	2.95	2.65	2.39
40353	CA	28WW2 <i>R</i>	28	0.6 .....	5.95	5.39	4.75
41180	CA	40TWW2 <i>R</i>	40	0.6 .....	6.95	5.95	4.95





## Machine Toolled Solder Tail Low-Profile IC Sockets

- Contact plating: gold
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Tin-plated leads
- Thru-hole lead length: .177" (A)
- Body height: .117" (B)

\*Web Code: GBA



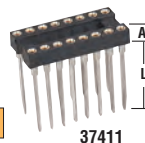
Part No.	*Mfr.	Product No.	Pins	Width (ins.)	1	10	100
167004	JVP	6MLPT	6	0.3	.39	.29	.19
51626	JVP	8MLP	8	0.3	.49	.45	.29
37197	JVP	14MLP	14	0.3	.65	.55	.39
37402	JVP	16MLP	16	0.3	.75	.59	.45
65585	JVP	18MLP	18	0.3	.89	.75	.55
38623	JVP	20MLP+	20	0.3	.85	.69	.49
192209	+	22SMLP	22	0.4	1.25	1.09	.89
39386	+	24SMLP+	24	0.3	.95	.79	.59
39351	JVP	24MLP+	24	0.6	1.09	.89	.65
652359	+	24MLP-GOLD	24	0.6	1.09	.89	.65
114412	JVP	28SMLP	28	0.3	1.09	.89	.65
184680	+	284SMLP	28	0.4	.95	.79	.59
40328	+	28MLP+	28	0.6	1.19	.95	.69
223002	+	324SMLP	32	0.4	1.25	.95	.79
105381	JVP	32MLP	32	0.6	1.35	1.09	.89
662629	+	40MLP*	40	0.6	1.35	1.09	.89
41136	JVP	40MLP+	40	0.6	1.69	1.39	.95
42059	+	48MLP+	48	0.6	1.89	1.59	1.29
200707	+	64MLP	64	0.9	2.95	2.49	1.95

\* Lead length .25"

## 3 Level Machine Toolled Wire Wrap IC Sockets

- Contact plating: gold
- Sleeve material: brass
- Contact resis.: <5mΩ
- Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstanding voltage: 300V<sub>RMS</sub>
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A)
- Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide

\*Web Code: FAL



Part No.	Cross Ref. No.	Pins	Width (ins.)	1	10	100
94474	8MSWW3	8	0.3	1.49	1.35	1.19
62051	14MSWW3	14	0.3	1.75	1.55	1.39
37411	16MSWW3	16	0.3	2.25	1.95	1.75
94482	18MSWW3	18	0.3	2.25	1.95	1.75
38632	20MSWW3	20	0.3	2.49	2.25	1.95
185324	22MSWW3	22	0.3	2.49	2.25	1.95
105372	24MSWW3	24	0.3	2.75	2.49	2.25
313656	24MSWW3	24	0.6	2.75	2.49	2.25
94491	24MSWW3	24	0.6	2.95	2.75	2.49
200716	28MSWW3	28	0.3	3.25	2.95	2.75
40337	28MSWW3	28	0.6	3.25	2.95	2.75
117058	32MSWW3	32	0.6	3.49	3.19	2.79
94503	40MSWW3	40	0.6	3.95	3.55	3.19
200723	48MSWW3	48	0.6	3.95	3.55	3.19

## Wire Wrap IC Socket I.D. Markers

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping

\*Web Code: YAG



Part No.	Mfr. Part No.	Pins	Width (ins.)	1	10	100
51561	8ID	8	0.3	.49	.45	.39
37145	14ID	14	0.3	.59	.45	.25
38586	20ID	20	0.3	.95	.75	.49
40299	28ID	28	0.6	1.09	.89	.55

\* JVP = Jameco ValuePro | OST = On Shore Technology | + Manufacturer Varies

## PLCC Thru-Hole Sockets

\*Web Code: YAH

- Solder tail allows through-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)

71969



Part No.	Cross Ref. No.	Pins	Body Height (ins.)	1	10	100
71263	G1P428	28	.375	.65	.55	.49
71811	G1P32	32	.375	.69	.59	.55
71618	G1P444+	44	.375	.75	.65	.59
72442	G1P452	52	.375	.85	.75	.69
71969	G1P468	68	.375	.89	.79	.75
71977	G1P484	84	.375	.95	.85	.79

## PLCC SMT Sockets

\*Web Code: EAR

- Housing: high temp. thermoplastic, UL94V-0
- Contacts: phosphor bronze/tin lead
- Contact resis.: 200MΩ max.
- Insulation resis.: 5000MΩ min.



Part No.	*Mfr.	Product No.	Pins	Voltage Rate	1	10	100
2004822	+	850-20SMT-T	20	250V, 1A	.65	.55	.49
2005286	+	850-28SMT-T	28	250V, 1A	.69	.59	.55
2004831	+	850-32SMT-T	32	250V, 1A	.75	.65	.59
152688	JVP	850-44-PPST+	44	250V, 1A	.79	.69	.65
2005294	+	850-52SMT-T	52	250V, 1A	.89	.79	.69
1954771	+	850-68SMT-T	68	250V, 1A	.95	.85	.75
307951	JVP	850-68-PPST	68	250V, 1A	.59	.55	.49
152696	OST	EDO-68PLC25M-N	68	250V, 1A	.59	.55	.49
2004849	+	850-84SMT-T	84	250V, 1A	1.19	.95	.79

## AMP PGA Socket

- Intel Celeron, PIII chip compatibility
- LCP cover material, UL94V-0 natural
- Open frame style
- Low profile
- Contacts: copper alloy/gold
- 19 x 19 grid



Part No.	Mfr. Part No.	Pins	1	10	100
838735	2-916783-2	370	\$5.49	\$5.09	\$4.75

## AMP PQFP Socket & Cover

- Housing: high temperature thermoplastic, black, 94V-0 rated
- Cover: polyphenylene sulfide (PPS) 94V-0 rated, black
- Contacts: phosphor bronze, tin



Part No.	Mfr. Part No.	Description	1	10
840587	821949-5	132-position socket	\$24.95	\$22.49
840552	821942-1	132-position cover	4.39	4.05

## SIMM Vertical Sockets

\*Web Code: WAL

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts



Part No.	*Mfr.	Product No.	Description	1	10	100
100302	JVP	2000-1X30S	Single x 30-pin, vertical	1.49	1.35	1.19
1954754	+	ES1533	Single x 72-pin, vertical	1.95	1.75	1.49
1954746	+	ES1538	Dual x 30-pin, vertical	2.29	1.95	1.75
1954762	+	ES1536	Dual x 72-pin, vertical	2.49	2.25	1.95

## molex .050" (1.27mm) Pitch SIMM Sockets

- 72 positions
- Left polarization
- Contact: phosphor bronze
- PCB retention: press-fit plastic peg
- Contact plating (plating thickness): gold (0.76μm; 30μ"); tin/lead (5μm; 200μ")
- 669791: Right polarization; gold contact plating



Part No.	Mfr. Part No.	Description	1	10
669791	15-82-0778	Vertical	\$3.95	\$3.49
670750	15-82-0649	40° low profile	4.29	3.85
670784	15-82-1538	Right angle	6.49	5.85

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## molex® .050" (1.27mm) DDR DIMM Socket

- 25° low profile
- Voltage key: 2.5V, left
- Plating tail: tin, lead free
- Contact: copper alloy
- Contact plating: .38µm (15µ") gold



Part No.	Mfr. Part No.	Pos.	1	10
668511	87623-2001	184	\$6.95	\$5.95

## molex® .050" (1.27mm) DIMM Sockets

- 168 positions
- Contact: phosphor bronze
- Contact plating: gold over palladium nickel
- 662813/662821/662830/662848: Beveled metal pin, forklock PCB retention
- 668529/668537: Press-fit plastic peg PCB retention



Part No.	Mfr. Part No.	Description	1	10
662813	71736-0001	DRAM, 3.3V	\$3.95	\$3.49
662821	71736-0002	DRAM, 5.0V	3.95	3.49
662830	71736-0005	Unbuff., 5.0V	3.95	3.49
662848	71736-0006	SDRAM, 3.3V	3.95	3.49
668529	71251-0001	DRAM, 3.3V	3.95	3.49
668537	71251-0016	SDRAM, 3.3V	3.95	3.49

\* Voltage References Available Online — Enter Web Code TBD

\* Hot Swap Controllers Available Online — Enter Web Code JAX

## Transistors

\* Web Code: FEN

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100
26462	♦	MPSA06	TO-92	NPN	80	100k @ .01A	* .045	\$ .039	
26489	♦	MPSA13 *	TO-92	NPN	30	5k @ .01A	* .059	.055	
210593	♦	MPSA14	TO-92	NPN	30	20k @ .10A	* .045	.039	
210681	♦	MPSA18	TO-92	NPN	45	500 @ .001A	* .065	.055	
33021	♦	TIP29A	TO-220	NPN	60	15 @ 1A	.29	.25	.22
33048	♦	TIP31A *	TO-220	NPN	60	10 @ 3A	.29	.25	.22
179354	FSC	TIP31C	TO-220	NPN	100	10 @ 3A	.29	.25	.22
890568	ST	TIP35C	TO-218	NPN	100	25 @ 1.5A	1.09	.99	.89
33081	♦	TIP41A	TO-220	NPN	60	15 @ 3A	.39	.35	.29
179371	♦	TIP41C	TO-220	NPN	100	15 @ 3A	.35	.29	.25
178546	♦	MPSA42	TO-92	NPN	30	40 @ .03A	* .065	.059	
288631	♦	TIP48	TO-220	NPN	300	30 @ .3A	.35	.29	.25
32977	♦	TIP102 *	TO-220	NPN	100	1k @ 3A	.39	.35	.29
179240	FSC	TIP102	TO-220	NPN	100	1k @ 3A	.45	.39	.35
1094723	FSC	TIP102_NL	TO-220	NPN	100	1k @ 3A	.49	.45	.39
32993	♦	TIP120 *	TO-220	NPN	60	1k @ 3A	.35	.29	.25
32994	♦	TIP120	TO-220	NPN	60	1k @ 3A	.39	.35	.29
179291	FSC	TIP120	TO-220	NPN	60	1k @ 3A	.39	.35	.29
288585	♦	TIP121	TO-220	NPN	80	1k @ .5A	.29	.25	.15
120416	♦	TIP122	TO-220	NPN	100	1k @ 3A	.35	.25	.22
179303	FSC	TIP122	TO-220	NPN	100	1k @ 3A	.39	.29	.25
260558	NTE	NTE123AP	TO-92	NPN	40	—	1.19	1.09	.99
890445	ST	TIP142	TO-218	NPN	100	1k @ 0.5A	1.05	.95	.85
260611	NTE	NTE159	TO-92	PNP	80	—	1.25	1.05	.95
273199	NTE	NTE272	TO-202	NPN	—	—	10.95	9.95	—
254810	♦	BC337	TO-92	NPN	45	100 @ .10A	* .045	.039	
211529	♦	MJE340	TO-225	NPN	300	30 @ .05A	.29	.25	.22
261091	NTE	NTE473	TO-39	NPN	—	—	3.95	3.49	—
254799	♦	BC547C	TO-92	NPN	45	600 @ .002A	* .039	.035	
254781	♦	BC548B	TO-92	NPN	30	110 @ .002A	* .039	.035	
784790	FSC	BC549B	TO-92	NPN	30	110 @ 2mA	* .05	.03	
211553	♦	MJE800	TO-225	NPN	60	750 @ 1.5A	.29	.25	.22
916238	NXP	BC868T/R	SOT-89	NPN	20	85 @ 500mA	* .15	.12	
800568	MOT	MPS918	TO-92	NPN	15	20 @ .003A	* .08	.07	
38228	♦	2N2219A	TO-39	NPN	40	100 @ .15A	.45	.39	.35
26446	♦	MPQ2222	DIP-14	NPN	40	100 @ .15A	2.95	2.75	2.49
28628	♦	PN2222 *	TO-92	NPN	30	100 @ .15A	* .065	.055	
38236	♦	2N2222A *	TO-18	NPN	40	100 @ .15A	.45	.39	.35
38237	♦	2N2222A	TO-18	NPN	40	100 @ .15A	.49	.45	.39

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, pg 21

## Transistors (Continued)

\* Web Code: FEN

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>ceo</sub>	Min. (h <sub>FE</sub> @ I <sub>c</sub> )	1	10	100
213938	♦	MMBT2222A	SOT-23	NPN	40	100 @ .15A	* .029	\$ .025	
210673	♦	MPS2222A	TO-92	NPN	40	40 @ .50A	* .045	.039	
178511	♦	PN2222A	TO-92	NPN	40	100 @ .15A	* .029	.025	
178512	♦	PN2222A	TO-92	NPN	40	100 @ .15A	* .035	.029	
803268	ON	PN2222AG	TO-92	NPN	40	50 @ .001A	* .065	.055	
803049	ON	P2N2222AG	TO-92	NPN	40	35 @ .01A	* .07	.06	
1945014	FSC	PN2484	TO-92	NPN	60	250 @ .001A	* .09	.07	
38295	♦	2N3053 *	TO-39	NPN	40	25 @ .15A	.55	.49	.45
38308	♦	2N3055 *	TO-3	NPN	60	15 @ 10A	.89	.79	.69
211406	♦	2N3055A	TO-3	NPN	60	20 @ 4A	1.75	1.45	1.15
211385	♦	TIP3055	TO-218	NPN	60	5 @ .001A	.85	.75	.69
25857	♦	MJE3055T	TO-220	NPN	60	20 @ 4A	.39	.35	.29
194415	♦	2N3439	TO-39	NPN	350	40 @ .02A	.59	.49	.39
1944919	NSC	PN3566	TO-92	NPN	30	80 @ .002A	* .12	.07	
209242	♦	2N3771	TO-3	NPN	40	15 @ 15A	1.95	1.75	1.49
140151	♦	2N3773	TO-3	NPN	140	15 @ 8A	2.25	1.95	1.75
38359	♦	2N3904 *	TO-92	NPN	40	100 @ .01A	* .025	.022	
38360	♦	2N3904	TO-92	NPN	40	100 @ .01A	* .029	.025	
178597	FSC	2N3904	TO-92	NPN	40	100 @ .01A	* .029	.025	
783421	FSC	2N3904	TO-92	NPN	40	100 @ .01A	* .035	.029	
885161	ON	2N3904G	TO-92	NPN	40	40 @ 0.1mA	* .039	.035	
94967	♦	MMBT3904	SOT-23	NPN	40	100 @ .01A	* .029	.025	
1944927	FSC	PN4275	TO-92	NPN	15	35 @ .01A	* .09	.07	
38421	♦	2N4401 *	TO-92	NPN	40	100 @ .15A	* .039	.035	
211490	♦	2N4923	TO-225	NPN	—	80 @ 1A	.45	.39	.35
1201380	FSC	PN4953	TO-92	NPN	30	150 @ .01A	* .045	.039	
310666	♦	2N5038	TO-3	NPN	150	20 @ 12A	4.95	4.49	3.95
140373	♦	2N5179	TO-72	NPN	12	25 @ .003A	1.09	.99	.89
1945081	FSC	2N5306	TO-92	NPN	25	7000 @ .002A	* .045	.039	
194600	♦	2N6059	TO-3	NPN	100	750 @ 6A	1.95	1.75	1.49
924300	ST	2N6284	TO-3/2	NPN	100	750 @ 10A	2.75	2.49	2.25
255011	♦	2N6292	TO-220	NPN	70	30 @ 2A	.25	.22	.15
1945031	FSC	MPS6515	TO-92	NPN	25	250 @ .002A	* .05	.04	
194618	♦	2N6547	TO-3	NPN	400	12 @ 5A	3.75	3.49	3.15
194626	♦	2N6678	TO-3	NPN	400	8 @ 15A	6.95	6.25	5.49
33030	♦	TIP30A	TO-220	PNP	60	15 @ 1A	.39	.35	.29
33064	♦	TIP32A *	TO-220	PNP	60	10 @ 3A	.29	.25	.22
181841	♦	TIP32C	TO-220	PNP	100	10 @ 3A	.29	.25	.22
890592	ST	TIP36C	TO-218	PNP	100	25 @ 1.5A	1.05	.95	.85
33101	♦	TIP42A	TO-220	PNP	60	15 @ 3A	.39	.35	.29
139580	♦	TIP42C	TO-220	PNP	100	15 @ 3A	.35	.29	.25
32985	♦	TIP106	TO-220	PNP	80	1k @ 3A	.59	.49	.35
179258	♦	TIP107	TO-220	PNP	100	1k @ 3A	.39	.35	.29
288526	♦	TIP115	TO-220	PNP	60	1k @ 1A	.35	.29	.25
288542	♦	TIP117	TO-220	PNP	100	1k @ 1A	.29	.25	.19
33013	♦	TIP125	TO-220	PNP	60	1k @ 3A	.29	.25	.22
179320	♦	TIP127	TO-220	PNP	100	1k @ 3A	.35	.29	.25
1085500	FSC	MPS750RL	TO-92	PNP	40	75 @ .05A	.25	.17	.15
194378	♦	2N2905A	TO-39	PNP	60	100 @ .15A	.45	.39	.35
924297	ST	2N2907	TO-39/3	PNP	-40	75 @ -.01A	.49	.45	.39
26454	♦	MPQ2907	DIP-14	PNP	40	100 @ .15A	1.95	1.75	1.49
28644	♦	PN2907 *	TO-92	PNP	40	100 @ .15A	* .035	.029	
211342	♦	MPS2907A	TO-92	PNP	60	100 @ .15A	* .055	.049	
178520	♦	PN2907A	TO-92	PNP	60	100 @ .15A	* .035	.029	
38279	♦	2N2907A *	TO-18	PNP	60	100 @ .15A	.45	.39	.35
211502	♦	MJ2955	TO-3	PNP	60	20 @ 4A	.99	.89	.79
25831	♦	MJE2955T	TO-220	PNP	60	20 @ 4A	.39	.35	.29
1944986	FSC	PN3644	TO-92	PNP	45	100 @ .01A	* .06	.04	
38375	♦	2N3906 *	TO-92	PNP	40	100 @ .01A	* .035	.029	
178618	FSC	2N3906	TO-92	PNP	40	100 @ .01A	* .039	.035	
805597	ON	2N3906G	TO-92	PNP	40	100 @ 10A	* .039	.035	
1944943	FSC	PN4122	TO-92	PNP	40	150 @ 1mA	* .12	.07	
1944951	FSC	PN4355	TO-92	PNP	60	100 @ 1mA	* .15	.12	
38447	♦	2N4403 *	TO-92	PNP	40	100 @ .15A	* .045	.039	

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, pg 21

Continued on next page

\* FSC = Fairchild Semiconductor | MOT = Motorola | NTE = NTE Electronics | NXP = NXP/Philips | ON = ON Semi | ST = ST Micro | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Transistors (Continued)

\*Web Code: FEN

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Desc.	V <sub>CE0</sub>	Min. (h <sub>FE</sub> @ I <sub>C</sub> )	1	10	100
1944935	FSC	PN4917	TO-92	PNP	30	150 @ 1mA	* \$ .12	\$ .07	
210649	+	2N5401	TO-92	PNP	150	60 @ .01A	* .045	.039	
253438	+	2N5884	TO-3	PNP	80	4 @ 25A	2.49	2.15	1.75
885419	ON	2N6027RLRA	TO-92	—	40	—	* .12	.09	
194571	+	2N6042	TO-220	PNP	100	1k @ 3A	.65	.55	.45
194597	+	2N6052	TO-3	PNP	100	750 @ 6A	2.49	2.25	1.95
261121	NTE	NTE6410	TO-92	PNP	30	—	4.95	4.49	3.95
885697	ON	2N6520RLRA	TO-92	NPN/PNP	350	20 @ 1mA	* .12	.09	

## Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and 30 adhesive labels for drawers to identify parts in kit

**10 each:** 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

**100 each:** 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	5
82595	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.)	0.4	54.95	49.95

## J-FETs

Please Note: Manufacturer may vary

\*Web Code: JAD

* Order in multiples of 10									
Part No.	Product No.	Pkg.	Channel	BV <sub>GS</sub> @ I <sub>g</sub> (μA)	I <sub>SS</sub> (mA) @ V <sub>DS</sub>	10	100	1000	
26403	MPF102*	TO-92	N	-25 @ -10	2 @ 15	\$ .10	\$ .09	\$ .055	
210622	2N3819	TO-92	N	-25 @ -1	20 @ 15	.09	.07	—	
1945006	PN4093	TO-92	N	-40 @ 1	15 @ 20	.09	.07	.04	
253948	2N5457	TO-92	N	-25 @ -10	1 @ 15	.08	.07	.05	
253921	2N5458	TO-92	N	-25 @ -10	2 @ 15	.09	.07	—	
38527	2N5951*	TO-92	N	-30 @ -1	7 @ 15	.12	.09	.07	
253913	2N5460	TO-92	P	40 @ 10	-1 @ -15	.10	.08	.055	

\*10 pcs. in Transistor cabinet kit, above

## N-Channel & P-Channel MOSFETs

\*Web Code: GCJ

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	1	10	100
669863	+	IRFBG20	TO-220AB	N	1000	1.4A	\$ .89	\$ .79	\$ .59
669871	+	IRFZ24N	TO-220AB	N	55	17A	.89	.79	.59
669919	+	IRFBE30	TO-220AB	N	800	4.1A	.99	.89	.69
669927	+	IRFBG30	TO-220AB	N	1000	3.1A	1.25	1.15	1.05
669935	+	IRFZ34N	TO-220AB	N	55	26A	.85	.75	.65
669943	+	IRLZ34N	TO-220AB	N	55	30A	.79	.69	.59
669951	+	IRFZ44N	TO-220AB	N	55	49A	.95	.85	.75
669978	+	IRFZ46N	TO-220AB	N	55	53A	.99	.89	.79
669986	+	IRFZ48N	TO-220AB	N	55	64A	1.05	.95	.85
670055	+	IRFP150N	TO-247	N	100	42A	.69	.59	.45
256031	+	BS170	TO-92	N	60	0.5A (max.)	* .10	.08	
670071	+	IRFR220N	TO-252AA	N	200	5A	.49	.39	.29
670080	+	IRFP250	TO-247	N	200	30A	1.95	1.75	1.49
670098	+	IRFP250N	TO-247AC	N	200	30A	1.75	1.35	1.15
670101	+	IRFP260N	TO-247	N	200	50A	2.75	1.95	1.45
871092	FSC	FDV303N	SOT-23	N	25	0.5A†	* .12	.09	
871113	FSC	FDV304P	SOT-23	P	-25	-1A†	* .12	.09	
871017	FSC	FDN337N	SuperSOT-3	N	30	10A	.25	.19	.15
670135	+	IRFP450	TO-247	N	500	14A	2.05	1.85	1.65
670143	+	IRFP460	TO-247	N	500	20A	2.49	2.25	1.85

† DMOS FET

## N-Channel & P-Channel MOSFETs (Continued)

\*Web Code: GCJ

* Order in multiples of 10									
Part No.	*Mfr.	Product No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	1	10	100
209234	+	IRF510	TO-220	N	100	5.6A	\$ .79	\$ .59	\$ .45
209226	+	IRF520	TO-220	N	100	10A	.55	.45	.39
209058	+	IRL520N	TO-220	N	100	10A	.65	.55	.45
210500	+	IRF530	TO-220	N	100	14A	.79	.69	.59
670151	+	IRF530N	TO-220AB	N	100	17A	.85	.75	.65
670160	+	IRL530N	TO-220AB	N	100	17A	.89	.79	.69
210518	+	IRF540	TO-220	N	100	27A	.75	.65	.55
670178	+	IRF540NS	D2PAK	N	100	33A	.69	.59	.39
670194	+	IRL540N	TO-220AB	N	100	30A	1.25	1.15	.95
210526	+	IRF620	TO-220	N	200	6.0A	.45	.39	.35
210534	+	IRF630	TO-220	N	200	9.0A	.45	.39	.35
210542	+	IRF640	TO-220	N	200	18A	.79	.69	.59
670223	+	IRF640NS	D2PAK	N	200	18A	.59	.49	.45
670231	+	IRF644	TO-220AB	N	250	14A	.79	.69	.59
210551	+	IRF730	TO-220	N	400	5.5A	.75	.65	.55
210569	+	IRF740	TO-220	N	400	10A	.65	.55	.45
210577	+	IRF820	TO-220	N	500	4.0A	.59	.49	.45
210585	+	IRF830	TO-220	N	500	4.5A	.55	.45	.39
184719	+	IRF840	TO-220	N	500	8.0A	.85	.75	.65
787798	FSC	RFP12N10L	TO-220AB	N	100	12A	.69	.59	.45
670258	+	IRF1010E	TO-220AB	N	60	75A	1.49	1.35	1.25
670274	+	IRF1310N	TO-220AB	N	100	36A	1.45	1.25	1.15
670282	+	IRF1405	TO-220AB	N	55	169A	2.45	2.15	1.95
279460	+	VN2222LL	TO-92	N	60	0.75A	.25	.22	.19
670346	+	IRL2910	TO-22AB	N	100	55A	1.25	1.15	.85
873602	FSC	MTP3055VL	TO-220	N	60	12A	.75	.59	.49
874875	FSC	NDT3055L	SOT-223	N	60	10A	.29	.25	.19
1559640	INR	IRF3205PBF	TO-220	N	55	110A	1.75	1.55	1.35
618089	+	IRF3205	TO-220	N	55	110A	1.55	1.35	1.15
670354	+	IRF3415	TO-220AB	N	150	43A	1.75	1.55	1.35
618071	+	IRL3705	TO-220	N	55	89A	1.25	1.15	1.05
670362	+	IRF3710	TO-220AB	N	100	57A	.89	.79	.65
670371	+	IRFPS37N50A	Super-247	N	500	36A	6.25	5.49	4.75
255038	+	SI4420DY	SOIC-8	N	30	30A	1.25	1.05	.85
875051	FSC	RFP50N06	TO-220AB	N	60	50A	.95	.75	.65
119423	+	2N7000	TO-92	N	60	0.3A	* .07	.05	
178669	FSC	2N7000*	TO-92	N	60	0.2A	* .08	.06	
783594	FSC	2N7000	TO-92	N	60	0.75A	* .09	.07	
140169	+	2N7002	SOT-23	N	60	0.5A	* .035	.029	
670397	+	IRF7401	SOIC-8	N	20	10A	.59	.49	.35
256057	+	BS250	TO-92	P	-45	0.25A (max.)	.49	.45	.39
1944901	+	ZVP3306A	TO-92	P	-60	-0.4A†	.39	.29	.25
920288	FSC	FQA36P15-NL	TO-3P	P	-150	-18A	1.49	1.25	1.09
870971	FSC	FDC640P	Super SOT-6	P	-20	-20A	.25	.17	.15
670442	+	IRF4905	TO-220AB	P	-55	-74A	1.49	1.35	1.25
1559851	INR	IRF4905PBF	TO-220AB	P	-55	-74A	1.75	1.55	1.45
670451	+	IRF4905S	D2PAK	P	-55	-74A	2.75	2.49	2.25
670477	+	IRF5210	TO-220AB	P	-100	-40A	1.75	1.55	1.35
670485	+	IRF5305	TO-220AB	P	-55	-31A	.99	.89	.79
670522	+	IRLML6401	SOT-23	P	-12	-12A	.25	.15	.12
670531	+	IRF7404	SOIC-8	P	-20	-7.7A	.29	.25	.17
670549	+	IRF7416	SOIC-8	P	-30	-10A	.49	.45	.29
670581	+	IRF9234N	TO-220AB	P	-55	-1.8A	.89	.79	.69
670629	+	IRF9520	TO-220AB	P	-100	6A	.65	.55	.45
670741	+	IRF9530	TO-220AB	P	-100	-12A	.59	.49	.45
670637	+	IRF9530N	TO-220AB	P	-100	-14A	.99	.89	.79
670645	+	IRF9540N	TO-220AB	P	-100	-23A	1.25	1.05	.95
670653	+	IRF9640	TO-220AB	P	-200	-11A	1.15	.95	.85
255089	+	SI4963DY	SOIC-8	Dual P	20	-20A	.99	.79	.59
670661	+	IRF7103	SOIC-8	Dual N	50	3A	.39	.35	.25
670670	+	IRF7303	SOIC-8	Dual N	30	5.3A	.35	.29	.19

\*10 pcs. in Transistor cabinet kit, left † DMOS FET

\* FSC = Fairchild Semiconductor | INR = International Rectifier | NTE = NTE | ON = ON Semiconductor | + Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# MOSFETs, Diodes, Suppressors, Triacs & Rectifiers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

IGR International Rectifier

## Hexfet Power MOSFETs

\* Web Code: HDU

Part No.	Mfr. Part No.	Pkg.	Channel	BV <sub>DS</sub>	Min. On-St. DS Current	* Order in multiples of 10		
						1	10	100
1563083	IRF224	TO-220AB	N	60	17A	\$1.49	\$1.25	\$1.19
1563147	IRF244NPBF	TO-220AB	N	55	49A	.99	.89	.79
1562363	IRFP450PBF	TO-247AC	N	500	14A	2.15	2.05	1.85
1951334	IRF530NS	D2-PAK	N	100	17A	.49	.35	.25
1560051	IRF540NPBF	TO-220AB	N	100	33A	1.75	1.45	1.29
1563690	IRLM5203TRPBF	Micro-3	P	-30	-3A	*	.15	.12
1559965	IRF5305PBF	TO-220AB	P	-55	-31A	1.05	.95	.85
1563729	IRLML6402TRPBF	Micro-3	P	-20	-3.7A	*	.15	.12
1561619	IRF9640PBF	TO-220AB	P	-400	-11A	1.15	.95	.85

♣ Blue Part No. = Limited Quantity Available

## Zener Diodes

\* Web Code: LAF

Part No.	*Mfr.	Product No.	Pkg.	V <sub>znom</sub>	Pwr Dissipation	* Order in multiples of 10		
						1	10	100
36290	♦	1N751A	DO-35	5.1V	0.5W	*	\$0.35	\$0.29
178773	VSH	1N4732A	DO-41	4.7V	1W	*	.045	.039
36097	♦	1N4733A*	DO-41	5.1V	1W	*	.045	.039
36118	♦	1N4734A	DO-41	5.6V	1W	*	.045	.039
36126	♦	1N4735A	DO-41	6.2V	1W	*	.045	.039
178837	♦	1N4739A	DO-41	9.1V	1W	*	.045	.039
36169	♦	1N4742A*	DO-41	12V	1W	*	.045	.039
36185	♦	1N4744A	DO-41	15V	1W	*	.045	.039
782911	FSC	1N4748ATR	DO-41	22.0V	1W	*	.035	.025
782962	FSC	1N4752ATR	DO-41	33.0V	1W	*	.035	.025
743488	FSC	1N5226B	DO-35	3.3V	0.5W	*	.029	.025
179047	♦	1N5231B	DO-35	5.1V	0.5W	*	.019	.015
179063	♦	1N5234B	DO-35	6.2V	0.5W	*	.025	.015
179135	♦	1N5250B	DO-35	20V	0.5W	*	.022	.019
804818	ON	1N5352BG	Surmetic-40	15.0V	5W	.25	.22	.19
804914	ON	1N5359BG	Surmetic-40	24.0V	5W	.25	.22	.19
1308322	ON	1SM5918BT3G	SMB	5.1V	3W	*	.12	.09

\* 10 pcs. in Diode/Rectifier cabinet kit, pg 23

## Diodes

\* Web Code: PAK

Part No.	*Mfr.	Product No.	Pkg.	Description	* Order in multiples of 10		
					1	10	100
1559164	INR	HFA08TB60PBF	TO-220AC	600VBR, 8A (Ultrafast)	\$.69	\$.59	\$.55
915323	NXP	BAS40-04T/R	SOT-23	40V <sub>R</sub> , 120mA (Schottky)	*	.035	.025
915972	NXP	BAV99ST/R	SOT-363	85V <sub>RRM</sub> , 0.5A (Switching)	*	.07	.05
35941	♦	1N270*	DO-7	80PRV (Germanium)	.99	.89	.79
1538865	DDI	B340A-13F	SMA	40V <sub>RRM</sub> , 3A (Schottky)	.25	.19	.15
313402	♦	MMB0914	SOT-23	100V <sub>RRM</sub> , 0.2A (Switching)	*	.019	.015
312101	♦	MBR1100	DO-41	100PRV, 1.0A (Schottky)	.25	.22	.19
1556650	AVT	HSMS-2802-BLKG	SOT-23	RF schottky barrier series, 70V	.49	.39	.35
1556879	AVT	HSMS-2825-BLKG	SOT-143	RF schottky barrier series, 15V	.49	.39	.35
1585240	AVT	HSMS-2860-BLKG	SOT-23	Forward voltage 350mV	.69	.55	.45
787940	FSC	RURP3020	TO-220AC	200V <sub>RRM</sub> , 30A (Ultrafast)	1.55	1.35	1.29
36038	♦	1N4148**	DO-35	75PRV, 0.01A (Switching)	*	.012	.009
151247	♦	1N4148T	DO-35	75PRV, 0.01A (tape/reel)	*	.012	.009
179215	VSH	1N4148	DO-35	100PRV (Switching)	*	.015	.012
743656	ST	1N5711	DO-35	70V <sub>RRM</sub> , 15mA (Schottky)	.25	.19	.15
743710	ST	1N6263	DO-35	60V <sub>RRM</sub> , 50mA (Schottky)	*	.15	.09
1558946	INR	80SQ045	DO-204	40V <sub>RRM</sub> , 80A (Schottky)	.59	.49	.45
1547999	AVT	5082-3081		Glass axial Pin diode for RF switch & atten	2.49	2.25	1.95

\* 10 pcs./\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 23

## Small Signal Diodes

\* Web Code: JDQ

Part No.	*Mfr.	Product No.	Pkg.	Description	Order in multiples of 10		
					10	100	1000
655613	♦	BAY73	DO-35	125V <sub>RRM</sub> , 0.5A	\$.02	\$.01	\$.009
36311	♦	1N914**	DO-35	75PRV, 0.01A	.022	.019	.015
179207	VSH	1N914	DO-35	100PRV	.025	.022	.02
655269	♦	1N914A	DO-35	100V <sub>RRM</sub> , 0.2A	.04	.03	.02
655285	♦	1N916	DO-35	100V <sub>RRM</sub> , 0.2A	.015	.01	.007

\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 23

\* AVT = Avago | BMS = Bourns | FSC = Fairchild Semi | DDI = Diodes Inc. | INR = International Rectifier | NXP = NXP/Philips Semi | ON = ON Semi | ST = ST Micro | TAT = Taitron | TEC = Teccor | VSH = Vishay | ♦ Mfr. Varies

♣ RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

## Transient Voltage Suppressors

\* Web Code QBQ

Part No.	Product No.	Watt	Pkg.	Min. Brkdown Volt. (V <sub>BR</sub> )	Stand-Off Voltage	* Order in multiples of 10		
						1	10	100
255847	P6KE24CA	600	DO-15	22.8	20.5	*	\$1.2	\$0.9
255775	P6KE33CA	600	DO-15	31.4	28.2	*	.15	.12
255741	P6KE39CA	600	DO-15	37.1	33.3	*	.12	.09
255951	P6K150CA	600	DO-15	143.0	128	*	.12	.09
255839	P6K250CA	600	DO-15	237.0	214	*	.15	.12
313234	SMCJ10CA	1500	DO-214AB	11.1	10	.29	.25	.22
313082	SMCJ58CA	1500	DO-214AB	64.4	58	.29	.25	.22
618118	1N5908	1500	DO-41	6.0	—	.25	.19	.15

## Triacs

\* Web Code: PAE

Part No.	*Mfr.	Product No.	Pkg.	Rating	1	10	100
160098	♦	HT-32	DO-35	27.37 V <sub>BO</sub> , 2A	\$.25	\$.22	\$.19
31819	♦	SC146B	TO-220	200 V <sub>DRM</sub> , 10A (2N6342)	1.49	1.35	1.19
31827	♦	SC146M	TO-220	600 V <sub>DRM</sub> , 10A (2N6344)	1.95	1.75	1.49
1165690	BNS	TIC201M	TO-220	600 V <sub>DRM</sub> , 2.5A	.49	.39	.25
160207	TEC	Q4008L4	TO-220AB	400 V <sub>DRM</sub> , 8A	1.19	1.09	.89
220492	TEC	Q4008R4	TO-220AB	400 V <sub>DRM</sub> , 8A	.89	.79	.69
139336	TEC	Q4015L5	TO-220AB	400 V <sub>DRM</sub> , 15A	1.29	1.19	1.09
160143	TEC	Q4025L6	TO-220AB	400 V <sub>DRM</sub> , 25A	2.25	2.05	1.85
160215	TEC	Q6008L5	TO-220AB	600 V <sub>DRM</sub> , 8A	1.09	.99	.89
160231	TEC	Q6015L5	TO-220AB	600 V <sub>DRM</sub> , 15A	1.75	1.49	1.35
220505	TEC	Q6025R6	TO-220AB	600 V <sub>DRM</sub> , 25A	1.75	1.55	1.35
220521	TEC	Q6035P5	TO-3	600 V <sub>DRM</sub> , 35A	7.95	6.95	5.95
140425	♦	2N6071A	TO-225AA	200 V <sub>DRM</sub> , 4A	.39	.35	.29

## SanRex® Fast-On & Thru-Hole Pkg. Triacs

\* Web Code: PCH

Part No.	Mfr. Part No.†	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658216	TG35E60	Fast-On	Isolated 35A, 600V	\$8.95	\$7.95	\$6.95
658275	TG35F60	Fast-On	Isolated 35A, 600V	8.95	7.95	6.95
657088	TMG10C80	TO-220AB	Non-isolated 10A, 800V	.59	.49	.39
657117	TMG16C60	TO-220AB	Non-isolated 16A, 600V	.59	.49	.39
657192	TMG8C60F	TO-220F	Isolated 8A, 600V	1.09	.99	.89

† For cross references to Littelfuse, ST, and ON Semi products, refer to datasheets @ Jameco.com.

## Rectifiers

\* Web Code: LBD

Part No.	*Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10		
					1	10	100
177754	TAT	T6A05L	T6L	50 PIV, 6A	\$.39	\$.35	\$.29
177762	TAT	T6A10L	T6L	100 PIV, 6A	.49	.45	.39
177818	TAT	T6A100L	T6L	1000 PIV, 6A	.69	.59	.49
618062	♦	40CPQ060	TO-247AC	60 V <sub>RRM</sub> , 40A (Schottky)	1.75	1.49	1.25
865864	ON	MBRS130LT3	SMB	30 @ 1A	*	.12	.09
879991	ON	MURS140T3	SMB	400 @ 1A (Ultrafast)	*	.12	.09
801617	ON	MR856G	Case-267	600 @ 3A	*	.12	.10
35924	♦	1N1188	DO-5	400 PRV, 35A	4.25	3.75	3.35
618100	♦	MBR745	TO-220	35V <sub>RRM</sub> , 7.5A	.35	.29	.25
802193	ON	MUR1640CTG	TO-220AB/3	400 PIV, 16A	1.25	1.15	1.05
790647	ON	MBR1645G	TO-220AC/2	45 PIV, 16A	.89	.69	.59
886657	ON	MBR20100CTG	TO-220AB/3	100 @ 20A	.89	.79	.69
618097	♦	MBR2535CT	TO-220	35 V <sub>RRM</sub> , 30A	.39	.35	.25
35975	♦	1N4001*	DO-41	50 PRV, 1A	*	.025	.019
1537862	DDI	1N4001G-T	DO-41	50V <sub>RRM</sub> , 1A	*	.055	.05
76961	♦	1N4002	DO-41	100 PRV, 1A	*	.025	.019
76962	♦	1N4002	DO-41	100 PRV, 1A	*	.029	.025
1537889	DDI	1N4002-T	DO-41	100 V <sub>RRM</sub> , 1A	*	.025	.015
76970	♦	1N4003	DO-41	200 PRV, 1A	*	.025	.019
35991	♦	1N4004**	DO-41	400 PRV, 1A	*	.025	.019
879094	ON	MRA4004T3	SMA	400 @ 1A	*	.09	.05
76988	♦	1N4005	DO-41	600 PRV, 1A	*	.025	.019
76996	♦	1N4006	DO-41	800 PRV, 1A	*	.025	.019
36011	♦	1N4007*	DO-41	1000 PRV, 1A	*	.025	.019
36012	♦	1N4007	DO-41	1000 PRV, 1A	*	.029	.025
1537951	DDI	1N4007-T	DO-41	1000 V <sub>RRM</sub> , 1A	*	.06	.05
1304778	ON	1N4933RLG	DO-41	50 V <sub>RRM</sub> , fast recovery	*	.045	.035
36249	♦	1N5401	DO-201AD	100 PIV, 3A	*	.10	.08
77083	♦	1N5402	DO-27A	200 PRV, 3A	*	.10	.08
36265	♦	1N5404*	DO-27A	400 PRV, 3A	*	.10	.08

\* 10 pcs./\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 23

Continued on next page





## Rectifiers (Continued)

\* Web Code: LBD

Part No.	Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10		
					1	10	100
36273	+	1N5408*	DO-27A	1000 PRV, 3A	...	\$ .10	\$ .08
177949	+	1N5817	DO-204AL	20 PIV, 1A	...	.10	.08
177957	+	1N5818	DO-204AL	30 PIV, 1A	...	.10	.08
177965	+	1N5819	DO-204AL	40 PIV, 1A	...	.10	.08
743681	ON	1N5819G	DO-41	40 PIV, 1A	...	.15	.13
1538419	DDI	1N5819HW-7-F	SOD-123	40 V <sub>RRM</sub> , 1A (Schottky)	...	.29	.25
177973	+	1N5820	DO-201AD	20 PIV, 3A	...	.15	.12
177981	+	1N5821	DO-201AD	30 PIV, 3A	...	.15	.12
177990	+	1N5822	DO-201AD	40 PIV, 3A	...	.25	.17
805183	ON	1N5822G	DO-201AD	40 PIV, 3A	...	.25	.22
743701	ON	1N5822RLG	DO-201AD	40 PIV, 3A	...	.25	.22
1538435	DDI	1N5822-T	DO-201AD	40 V <sub>RRM</sub> , 3A (Schottky)	...	.29	.25

## Bridge Rectifiers

\* Web Code: MBD

Part No.	Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10		
					1	10	100
1540421	+	HD04-T	Mini DIP-4	400 V <sub>RRM</sub> , 0.8A	...	\$ .15	\$ .12
178001	+	DF005M	DF	50 V <sub>RRM</sub> , 1A	...	.29	.25
103000	+	DF01M	DF	100 V <sub>RRM</sub> , 1A	...	.29	.25
103042	+	DF02M	DF	200 V <sub>RRM</sub> , 1A	...	.29	.25
102971	+	DF04M	DF	400 V <sub>RRM</sub> , 1A	...	.29	.25
103034	+	DF06M	DF	600 V <sub>RRM</sub> , 1A	...	.29	.25
256575	+	DF08M	DF	800 V <sub>RRM</sub> , 1.5A	...	.29	.25
103026	+	DF10M	DF	1000 V <sub>RRM</sub> , 1A	...	.29	.25
145429	+	KBP02M	KBP	200 V <sub>RRM</sub> , 1.5A	...	.39	.35
119562	+	KBP04M*	KBP	400 V <sub>RRM</sub> , 1.5A	...	.39	.35
279494	+	W005G	WOG	50 V <sub>RRM</sub> , 1.5A	...	.45	.39
103018	+	W02G	WOG	200 V <sub>RRM</sub> , 1.5A	...	.49	.45
102980	+	W04G	WOG	400 V <sub>RRM</sub> , 1.5A	...	.49	.45
179469	+	W08G	WOG	800 V <sub>RRM</sub> , 1.5A	...	.49	.45
279515	+	W10G	WOG	1000 V <sub>RRM</sub> , 1.5A	...	.49	.45
178132	+	W01M	WOM	100 V <sub>RRM</sub> , 1.5A	...	.25	.22
178141	+	W02M	WOM	200 V <sub>RRM</sub> , 1.5A	...	.25	.22
178183	TAT	BR805D	BR8D	50 PIV, 2A	...	.49	.45
178247	TAT	BR810D	BR8D	1000 PIV, 2A	...	.49	.45
253260	+	2KBP06M	KBP	600 V <sub>RRM</sub> , 2A	...	.45	.35
253286	+	2KBP10M	KBP	1000 V <sub>RRM</sub> , 2A	...	.49	.39
299882	+	GBPC1204	GBPC	400 V <sub>RRM</sub> , 12A	...	1.95	1.49
299874	+	GBPC1206	GBPC	600 V <sub>RRM</sub> , 12A	...	1.75	1.49
299866	+	GBPC1206W	GBPC-W	600 V <sub>RRM</sub> , 12A	...	1.75	1.35
179477	+	GBPC25-01	GBPC	100 V <sub>RRM</sub> , 25A	...	1.95	1.49
179485	+	GBPC25-02	GBPC	200 V <sub>RRM</sub> , 25A	...	1.95	1.49
1544704	VSH	GBPC2506-E4/1	GBPC	600 V <sub>RRM</sub> , 25A	...	2.49	2.15
178280	+	MB254	MB35	400 V <sub>RRM</sub> , 25A	...	2.49	2.15
178431	+	MB358	MB35	800 V <sub>RRM</sub> , 35A	...	2.95	2.75
178335	TAT	TB252	TB35	200 PIV, 25A	...	1.95	1.75
25574	+	MDA990-3	179-01	200 PIV, 30A	...	3.75	3.49
25591	+	MDA990-6	179-01	600 PIV, 30A	...	3.95	3.75
178503	TAT	TB3510	TB35	1000 PIV, 35A	...	3.49	3.25

\* 10 pcs. in Diode/Rectifier cabinet kit, below

† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	5
82587	420 pcs. (15 types) diode kit	5.0	\$39.95	\$34.95
130366	Refill for 82587 (420 pcs.)	0.3	29.95	26.95

SAVE 10%

## Silicon Controlled Rectifiers (SCRs)

\* Web Code: BAB

Part No.	Mfr.	Product No.	Pkg.	Rating	* Order in multiples of 10		
					1	10	100
14859	+	C38M	TO-65	600 PRV, 35A (2N3899)	...	\$6.95	\$6.25
14736	+	C106B1*	TO-202	200 PRV, 4A (2N6239)†	...	.69	.59
14752	+	C122B	TO-220	200 PRV, 8A	...	1.29	1.19
14761	+	C122M	TO-220	600 PRV, 8A	...	1.35	1.25
160119	+	T106D1	TO-202AB	400 PRV, 4A	...	.59	.49
119802	+	2N5060	TO-92	25 PRV, 0.8A	...	.12	.10
211422	+	2N5061	TO-92	60 PRV, 0.8A	...	.12	.10
160135	TEC	S6025L	TO-220AB	600 V <sub>DRM</sub> , 25A	...	1.49	1.39
140417	+	2N6507	TO-220AB	400 PRV, 25A	...	.99	.89
885654	ON	2N6509	TO-220AB	800 V <sub>DRM</sub> , 25A	...	.99	.89

† Isolated \* 10 pcs. in Diode/Rectifier cabinet kit, below left

## Heat Sinks

\* Web Code: JAB



- Material: black anodized aluminum (except for P/N 107297 – light weight alum.)
- P/N 42622 can be mounted vertically with solderable mounting tabs

Part No.	Mfr.	Product No.	Type	Hole	Size (L" x W" x H")	1	10	100
2077335	AVD	501200B00	DIP-14/16	0	0.73 x 0.25 x 0.19	...	\$ .49	\$ .45
151547	JVP	635-125B2	TO-3	4	1.83 x 1.40 x 1.25	...	1.49	1.39
189835	AVD	501303B00000G	TO-3	4	1.90 x 1.40 x 0.50	...	.89	.79
16513	JVP	DUDE4	TO-3	4	4.75 x 1.50 x 1.25	...	3.75	3.25
326633	JVP	577304B00000	TO-202	0	0.52 x 0.38 x 0.75	...	.29	.25
326757	JVP	529801B02500	TO-218	3	1.64 x 1.00 x 1.50	...	1.19	.99
696626	AVD	530002B02500	TO-220	1	2.52 x 1.65 x 1.00	...	1.95	1.75
696714	AVD	577002B00000G	TO-220	1	0.52 x 0.25 x 0.75	...	.29	.25
158051	AVD	577102B00000G	TO-220	1	0.52 x 0.36 x 0.75	...	.29	.25
696722	AVD	581002B02500G	TO-220	1	0.64 x 0.64 x 1.00	...	1.25	1.15
326596	+	507302B00000	TO-220	1	0.75 x 0.38 x 0.75	...	.29	.25
70658	JVP	THM6073	TO-220	1	0.75 x 0.36 x 0.75	...	.29	.25
2077327	COM	8314021B00 (TO-262)	TO-220	0	0.75 x 0.50 x 0.50	...	.39	.25
40504	WKF	291-H-36AB	TO-220	1	1.00 x 0.36 x 0.86	...	.75	.65
107297	+	PSC2-U (cup-style)	TO-220	0	1.00 x 0.42 x 0.80	...	.49	.45
42622	AVD	563002B00000	TO-220	1	1.18 x 1.00 x 0.50	...	.35	.29
129242	JVP	THM6106	TO-220	1	1.18 x 1.00 x 0.50	...	.65	.55
70915	JVP	THM6106	TO-220	2	1.18 x 1.00 x 0.50	...	.69	.59
326693	JVP	531002B05200	TO-220	2	1.38 x 0.50 x 1.00	...	.89	.79
326713	JVP	531102B02500	TO-220	3	1.38 x 0.50 x 1.50	...	.99	.79
326765	JVP	531302B02500	TO-220/202	3	2.50 x 1.38 x 0.50	...	1.25	1.09
2033463	AVD	573300D00010G	TO-263	0	1.03 x 0.50 x 0.40	...	.85	.75
1933152	AVD	576802B00000G	TO-220	0	0.50 x 0.50 x 0.75	...	.45	.39
1115310	AVD	576802B03100G	TO-220	0	0.75 x 0.50 x 0.52	...	.45	.39
2029034	AVD	576802B04000G	TO-220	0	0.75 x 0.50 x 0.50	...	.49	.45
1115643	AVD	577202B00000G	TO-220	1	0.52 x 0.50 x 0.75	...	.29	.25
696600	AVD	507222B00000G	TO-220	2	1.45 x 1.75 x 0.38	...	.49	.45
1116460	AVD	7128DG	TO-220	0	0.86 x 0.38 x 1.18	...	.89	.79
326684	AVD	566010B03400	TO-218	0	1.00 x 0.50 x 1.22	...	.89	.79
891464	AVD	593002B03400G	TO-220	1	1.00 x 0.50 x 1.18	...	.79	.69
2039099	AVD	7023B-MTG	TO-220	3	1.90 x 1.95 x 0.95	...	1.35	1.15
1116187	AVD	6021PBG	TO-220	1	1.00 x 0.50 x 1.18	...	.95	.85
2028162	AVD	7173DG	TO-220	1	0.75 x 0.75 x 0.38	...	.49	.45
696765	AVD	7109DG	TO-263	0	0.76 x 1.00 x 0.45	...	1.25	1.05
1115432	AVD	576802B03900G	TO-220	0	0.50 x 0.50 x 0.75	...	.49	.45
2039793	AVD	529802B02500G	TO-220	1	1.65 x 1.00 x 1.50	...	1.39	1.29
2033009	AVD	7136DG	TO-220	0	0.52 x 0.52 x 0.85	...	.75	.65
129226	JVP	For 486 CPUs (adhesive back)		0	1.58 x 1.58 x 0.39	...	2.95	2.75

\* AVD = Aavid Thermalloy | COM = Comair Rotron | DDI = Diodes Inc. | JVP = Jameco ValuePro | ON = On Semiconductor | TAT = Taitron | TEC = Teccor | VSH = Vishay | WKF = Wakefield | + Mfr. Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Heat Sink Accessories

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



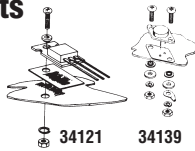
## Heat Sink Accessories

Part No.	Mfr. Part No.	Description	1	10	100
1582559	173-7-220P-R	DeltaPAD™ insulator for TO-220	\$ .39	\$ .35	\$ .25
1582575	175-6-240-P-R	KAPTON™ reinforced insulator for TO-220	.29	.25	.22

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121	TO-220	5 pcs per kit	\$3.95	\$3.59	\$3.25
34139	TO-3	12 pcs per kit	3.95	3.59	3.25



Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.

## Heat Sink Compounds

Part No.	*Mfr.	Product No.	Description	1	10	100
1582541	WKF	120-8-R	Silicon oil-based compound 8 oz. jar	\$26.95	\$24.49	\$22.95
169252	TSP	1978DP-R	Silicon free compound 4 oz. tube	25.95	23.95	21.95
615304	GCE	10-8106	Zinc-oxide filled silicon compound 1 lb. can	29.95	26.95	23.95
615312	GCE	10-8108	Zinc-oxide filled silicon compound 6.5g tube	2.95	2.65	2.39
615321	GCE	10-8109	Zinc-oxide filled silicon compound 1 oz. tube	7.95	7.25	6.55
167249	AVD	THM250-R	Silicon based compound 2 oz. tube	8.95	7.95	6.95
236823	JVP	54114-R	Silicon based compound 1 oz. tube	4.95	4.49	3.95



## Optoisolators

\*Web Code: CAG

* Order in multiples of 10					
Part No.	*Mfr.	Product No.	Pkg.	Description	1 10 100
40985	+	4N25	DIP-6	NPN phototransistor output	\$ .25 \$ .22 \$ .19
41005	+	4N26	DIP-6	NPN phototransistor output	.25 .22 .19
41013	+	4N28	DIP-6	NPN phototransistor output	.25 .22 .19
41021	+	4N32	DIP-6	NPN photodarlington output	.25 .22 .19
41030	+	4N33	DIP-6	NPN photodarlington output	.25 .22 .19
41056	+	4N35	DIP-6	NPN phototransistor output	.25 .22 .19
671832	+	4N35S	SOIC-6	General purpose phototransistor	.25 .22 .19
277464	+	4N36	DIP-6	General purpose phototransistor	* .12 .09
320418	+	CNY17-4	DIP-6	High BVceo phototransistor	.25 .19 .17
138069	+	ISP817-3	DIP-4	Low power transistor output	.39 .29 .25
114083	+	ISQ203	DIP-16	High density NPN phototransistor	2.25 1.95 1.75
320653	+	PS2501-1	DIP-4	Single NPN phototransistor output	.29 .25 .22
320661	+	PS2501-2	DIP-8	Dual NPN phototransistor output	.89 .79 .69
160338	+	PS2501-4	DIP-16	Quad NPN phototransistor output	1.49 1.35 1.19
320688	+	PS2502-1	DIP-4	Darlington photocoupler	.55 .45 .39
320696	+	PS2502-2	DIP-8	Dual NPN photodarlington output	1.45 1.29 1.15
160362	+	PS2502-4	DIP-16	Quad NPN photodarlington output	2.25 1.95 1.75
320709	+	PS2505-1	DIP-4	NPN phototransistor output	.39 .35 .29
320725	+	PS2505-4	DIP-16	Quad NPN phototransistor output	2.25 1.95 1.25
320805	+	PS2532-4	DIP-16	Quad hi collector to emitter voltage	2.49 2.25 1.95
320821	+	PS2561-2	DIP-8	High isolation voltage photocoupler	.69 .59 .45
672253	+	MOC206	SOIC-8	Optocoupler phototransistor	.29 .25 .22
26278	+	MOC3010	DIP-6	Bilateral sw. non-zero crossing triac	.39 .35 .29
698912	FSC	MOC3010M-R	DIP-6	Random phase, triac driver output	.45 .39 .35
95020	+	MOC3011	DIP-6	Random phase, triac driver output	.45 .39 .35
671859	+	MOC3012S	SOIC-6	Random phase, triac driver output	.29 .25 .19
277780	+	MOC3020	DIP-6	Bilateral sw. non-zero crossing triac	.49 .45 .39
95038	+	MOC3021	DIP-6	Random phase, triac driver output	.55 .49 .45
1261018	LTO	MOC3023S-R	SOIC-6	Random phase, triac driver output	.29 .25 .22
277819	+	MOC3023	DIP-6	Random phase, triac driver output	.49 .45 .39
113953	+	MOC3032	DIP-6	Zero-crossing triac driver output	.79 .69 .59
277827	+	MOC3033	DIP-6	Zero-crossing triac driver output	.69 .59 .49
277835	+	MOC3041	DIP-6	Zero-crossing, triac driver output	.79 .69 .59
277843	+	MOC3043	DIP-6	Zero-crossing, triac driver output	.79 .69 .59
277894	+	MOC3052	DIP-6	Random phase triac driver	.69 .59 .45
133874	+	MOC3063	DIP-6	Zero-crossing, triac driver output	.75 .65 .55
320629	+	MOC3082	DIP-6	Zero-crossing, triac driver output	.79 .69 .55
320611	+	MOC3083	DIP-6	Zero-crossing, triac driver output	.59 .45 .35
2006414	LTO	LTR-5986D	SIP-3	NPN phototransistor/detector	.25 .19 .15
2006406	LTO	LTV-8141S	SMD4	1-Ch. AC input darlington output	.29 .25 .22
273607	NTE	NTE3221	DIP-16	4-channel, NPN transistor output	3.25 2.95 2.75

\* AVD = Aavid Thermalloy | AVT = Avago | CLA = Clare | FSC = Fairchild | GCE = GC Electronics | JVP = ValuePro | LTO = Lite On | NTE = NTE Elec. | SIE = Siemens | TSP = Tech Spray | WKF = Wakefield | + Mfr. Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Optocouplers

\*Web Code: NAK

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
277510	+	6N135	DIP-8	Hi-speed photodetector transistor .....	\$ .65	\$ .55	\$ .45
42471	+	6N136	DIP-8	Hi-speed phototransistor output .....	.65	.55	.45
113911	+	6N137	DIP-8	Hi CMR, hi-speed logic gate output .....	.69	.59	.49
42489	+	6N138	DIP-8	Hi-speed photodarlington output .....	.69	.59	.49
113929	+	6N139	DIP-8	Hi-speed photodarlington output .....	.89	.69	.52
18825	+	H11AA1	DIP-6	AC input/phototransistor .....	.59	.49	.45
320434	+	H11AA2	DIP-6	AC input phototransistor optocoupler .....	.59	.49	.35
320451	+	H11AA4	DIP-6	AC input phototransistor optocoupler .....	.69	.59	.49
938365	FSC	H11AA4SVM-R	DIP-6	AC input phototransistor (w/ SMD) .....	.39	.35	.25
113988	+	H11L1	DIP-6	µPROC compatible Schmitt trigger .....	.59	.49	.45
871341	FSC	H11L1M-R	DIP-6	Logic output .....	.65	.55	.49
1549441	AVT	HCPL-060L-000E-R	SOIC-8	Hi-speed LVTTTL compatible 3.3V opto .....	1.75	1.35	1.09
1549644	AVT	HCPL-063N	SOIC-8	Dual ch. high CMR, 10MBd, HCMOS compat. ....	5.95	5.49	4.49
1549530	AVT	HCPL-0630-000E-R	SOIC-8	Dual ch. high CMR, hi-spd TTL compat. opto. ....	3.75	3.05	2.75
1549732	AVT	HCPL-0710	SOIC-8	40ns propagation delay, CMOS .....	3.49	2.95	2.75
1549741	AVT	HCPL-0710-000E-R	SOIC-8	40ns propagation delay, CMOS .....	3.85	3.45	3.15
1549839	AVT	HCPL-0731	SOIC-8	Dual ch. low input current, high gain .....	2.75	2.49	2.25
1550047	AVT	HCPL-2232	DIP-8	Dual ch. very high CMR, wide Vcc logic gate .....	6.95	6.69	6.29
785821	FSC	HCPL2631S-R	SOIC-8	Dual ch. high speed 10mbit/s logic gate .....	1.49	1.25	.95
1584221	AVT	HCPL-7710-000E-R	DIP-8	40ns propagation delay, CMOS .....	2.95	2.75	—
1584239	AVT	HCPL-7710-300E-R	DIP-8	40ns propagation delay, CMOS .....	2.95	2.75	—
1584247	AVT	HCPL-7800-300	SOIC-8	Isolation amplifier optocoupler .....	5.95	5.25	—
1584255	AVT	HCPL-7800A#300	DIP-8	Isolation amplifier optocoupler .....	8.95	6.95	—
1584263	AVT	HCPL-7800A-300E-R	SOIC-8	Isolation amplifier optocoupler .....	8.95	7.95	6.95
320477	+	MCT2	DIP-6	Phototransistor optocoupler .....	.35	.29	.25
24918	+	MCT6	DIP-8	High density NPN phototransistor .....	.59	.49	.45
672317	+	MCT61-R	DIP-8	Dual channel NPN phototransistor .....	.39	.29	.25
672325	+	MCT62	DIP-8	Dual channel NPN phototransistor .....	.59	.49	.39
2006385	LTO	LTV-814H	DIP-4	Phototransistor output, AC input .....	.25	.22	.19
1996330	LTO	LTV-824S	SOIC-8	Opto phototransistor .....	.39	.35	.25
790735	LTO	LTV-824-R	DIP-8	Opto phototransistor .....	.55	.45	.39
2006393	LTO	LTV-826	DIP-8	Phototransistor output .....	.35	.29	.25
878286	LTO	LTV-847-R	DIP-16	Quad ch. phototransistor output .....	.79	.69	.59
1583156	CLA	PD2401-R	DIP-16	AC solid st. sw. w/ dual pwr SCR output .....	5.75	5.25	4.49
1583199	CLA	TS117S-R	SOIC-8	1-Form-A relay optocoupler .....	1.75	1.45	—
1583228	AVT	5962-8876901PC	DIP-8	2-ch., low IF, wide Vcc, logic gate .....	79.95	—	—

## Slotted Optical Switches

4-pin w/ tab 4-pin angled

\*Web Code: XAP

Part No.	*Mfr.	Product No.	Pkg.	Description	1	10	100
114091	✦	H21A1	4-pin w/ tab	Single channel, 20mA (Ic) .....	\$ .69	\$ .59	\$ .49
320901	✦	H21A3	4-pin w/ tab	Single channel, 20mA (Ic) .....	.99	.79	.69
278096	✦	H21B3	4-pin w/ tab	Photodarlington optical interrupter .....	.89	.69	.55
2078282	SIE	IRLA075	4-pin w/ tab	Single channel, 50mA (Ic) .....	.79	.59	.49
1069835	FSC	QRB1114-R	4-pin angled	Infrared phototransistor .....	.99	.89	.69



# Subminiature & Standard-Output LEDs

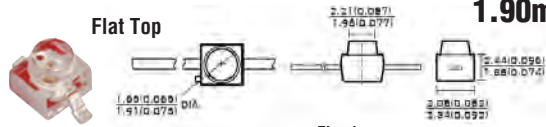


Fig. 1

## 1.90mm (.075") Subminiature LEDs

Flat-Top or Dome Style

\* Web Code: SML

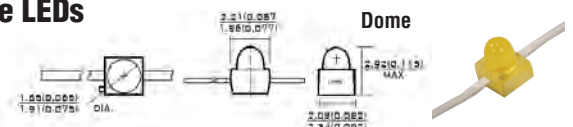
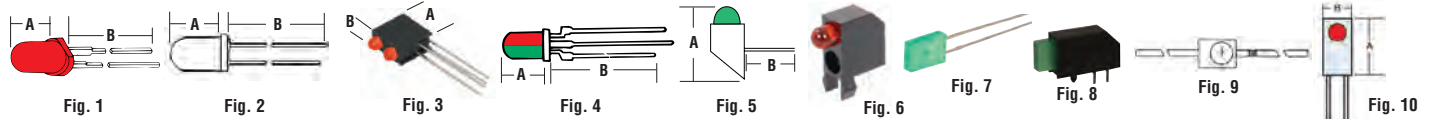


Fig. 2

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf @ If	Iv Typical mcd @ mA	Wavelength (nm)	Viewing Angle°	Pricing			
										1	10	100	500
1555690	HLMP-P205-F0011	AVT	1	Hi-eff. Red	Non-diffused, untinted	1.8 @ 10	8 @ 10	635	125	\$.49	\$.45	\$.35	\$.29
1555817	HLMT-PH00-P0011	AVT	1	Red Orange	Non-diffused, untinted	2 @ 20	120 @ 20	621	125	.49	.45	.35	.29
1555711	HLMP-P505-G0011	AVT	1	Hi-perf. Green	Non-diffused, untinted	2.1 @ 10	6.3 @ 10	565	125	.45	.39	.29	.25
1584976	HLMP-Q156-H0021	AVT	2	Red	Non-diffused, untinted	1.6 @ 0.5	7 @ 0.5	654	15	.49	.45	.35	.29
1584968	HLMP-Q106-R0011	AVT	2	Red	Non-diffused, untinted	1.9 @ 20	400 @ 10	654	15	.49	.45	.35	.29
1555219	HLMP-7000	AVT	2	Hi-eff. Red	Diffused, tinted	1.8 @ 10	1 @ 2	635	90	.45	.39	.29	.25
1584802	HLMP-7019	AVT	2	Yellow	Diffused, tinted	2 @ 10	0.6 @ 2	583	90	.45	.35	.25	.19
1554996	HLMP-6400	AVT	2	Yellow	Diffused, tinted	2 @ 10	9 @ 10	583	90	.45	.35	.25	.19
334406	LY9033	JVP	2	Yellow	Water clear	1.7 @ 20	30 @ 10	585	20	.39	.29	.19	.15
1555059	HLMP-6500-F0010	AVT	2	Hi-perf. Green	Diffused, tinted (right angle housing)	2.1 @ 10	7 @ 10	565	90	.49	.39	.29	.25
1555104	HLMP-6505-L0021	AVT	2	Hi-perf. Green	Non-diffused, untinted	2.1 @ 10	40 @ 10	565	28	.45	.35	.25	.19
1584790	HLMP-6820	AVT	2	Hi-perf. Green	Diffused, with resistor	5 @ 4	2 @ 5	565	90	.55	.49	.45	.39

Blue Part No. = Limited Quantity Available



## Standard-Output LEDs

See page 30 for LED Mounting Hardware

\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
26745	MCDL-170EC	MCD	9	Red	Water clear	T 3/4	0.065/1.7	0.06	0.35	—	2.0	7	635	100	\$.39	\$.35	\$.29	\$.25
1869437	MPG22625S	STA	9	Green	Green diffused	T 3/4	0.065/1.7	0.06	0.35	—	2.1	16	567	60	.35	.29	.25	.19
202471	MVL-301HR	UNI	1	Red	Red diffused	T1	0.119/3	0.14	1.12	0.10	2.0	9.0	640	40	*	.10	.08	.06
253278	HLMP-1301	FSC	1	Red	Red diffused	T1	0.119/3	0.19	1.00	0.10	1.9	5.4	635	60	*	.11	.09	.07
152785	LT0341R-41	LED	1	Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1	15.5	635	56	*	.10	.08	.06
333851	UT6371-41-M1	JVP	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.7	63	660	47	*	.12	.10	.08
94529	LH2040	JVP	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	*	.10	.08	.06
136282	LA44B/21	JVP	3	Red	Red diffused (right angle) .60" LDS	T1	0.119/3	0.38	1.17	0.10	1.7	12	635	50	.35	.29	.25	.19
1554099	HLMP-1700-80002	AVT	1	Red	Red tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	.25	.22	.19	.17
1554110	HLMP-1700-800A2	AVT	10	Red	Red tinted/diffused (right angle)	T1	0.119/3	0.19	0.95	0.10	1.7	0.8	635	50	.49	.45	.39	.35
152751	LT0344R-41	LED	1	Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1	52.9	635	36	*	.10	.08	.06
2081991	XLUR40W	◆	2	Red	Water clear	T1	0.119/3	0.197	1.063	0.10	1.9	59	627	50	*	.10	.08	.06
333171	HLMP-K155-JV	JVP	2	Red	Red clear	T1	0.119/3	0.19	1.04	0.10	1.6	3.0	660	45	*	.11	.09	.07
333260	LHR2643	JVP	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	300	660	40	*	.11	.09	.07
114673	LH2043	JVP	1	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	12	697	30	*	.10	.08	.06
206498	LHR2041	JVP	1	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.0	350	660	30	*	.15	.12	.10
697565	LTL-4211N	LTO	1	Bright Red	Red diffused	T1	0.118/3	0.175	1.00	0.10	2.1	4.4	697	60	*	.09	.07	.06
697590	LTL-4221N	LTO	1	Hi-eff Red	Red diffused	T1	0.118/3	0.175	1.00	0.10	2.0	8.7	635	60	*	.11	.09	.07
2006713	LTL-161CE	LTO	1	Hi-eff Red	Red diffused, flanged	T1	0.118/3	0.21	1.07	0.10	2.0	12.6	621	60	*	.09	.07	.05
1553838	HLMP-1301-E00A1	AVT	10	Hi-eff Red	Red diffused, PCB (right angle)	T1	0.119/3	0.19	0.95	0.10	1.9	3.4	635	60	.45	.39	.35	.29
2081932	BVL-300E5D	◆	2	OrangeRed	Red diffused	T1	0.119/3	0.17	1.00	0.10	2.1	18	622	45	*	.09	.06	.05
94553	LHG2062	JVP	1	Red/Green	White diffused bi-color/bi-state	T1	0.119/3	0.18	1.06	0.08	2.3	3 & 15	697/565	36	*	.19	.15	.12
1766366	4301F1/5	CML	2	Red/Green	White diffused bi-color	T1	0.119/3	0.175	1.00	0.10	2.1	13/4	660/565	60	.59	.55	.49	.45
156946	LT0362-25-D61	LED	4	Red/Green	White diff. bi-color/tri-state	T1	0.119/3	0.16	0.87	0.08	2.1	2.7/13.3	700/567	50	*	.19	.15	.12
235424	LA45B/21	JVP	3	Red/Red	Red diffused (right angle)	T1	0.119/3	0.40	0.18	0.10	1.7	12	630	50	.35	.29	.25	.19
235416	LA45B/2G	JVP	6	Green/Green	Green diffused (dual)	T1	0.119/3	0.40	0.18	0.10	1.7	15	565	50	.35	.29	.25	.19
156937	LT0331-41	LED	1	Yellow	Yellow diffused	T1	0.119/3	0.20	0.95	0.10	2.1	11	585	56	*	.12	.10	.08
333219	LY12340	JVP	1	Yellow	Yellow diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	585	112	*	.10	.08	.06
697688	LTL-4251N	LTO	2	Yellow	Yellow diffused	T1	0.118/3	0.175	1.00	0.10	2.1	5.6	585	60	*	.11	.09	.07
202489	MVL-301Y	UNI	2	Yellow	Yellow diffused	T1	0.118/3	0.20	1.10	0.10	2.1	9.0	585	40	*	.12	.10	.08
34657	LY2040	JVP	1	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	2.3	15	585	36	*	.12	.10	.08
334211	LA16BY	JVP	10	Yellow	Yellow diffused (right angle)	T1	0.119/3	0.29	1.18	0.10	1.7	12	585	50	*	.19	.15	.12
2006721	LTL-14CDJLDL	LTO	1	Yellow/Green	White diffused bi-color, flanged	T1	0.119/3	0.19	1.35	0.10	2.1	8.7/12.6	585/565	80	*	.19	.15	.12
2006705	LTL-1CHYE	LTO	1	Yellow	Water clear, flanged	T1	0.119/3	0.21	1.07	0.10	2.1	40	585	45	*	.08	.06	.05
2082003	XLUY40W	◆	2	Yellow	Water clear	T1	0.119/3	0.197	1.063	0.10	1.95	19	590	50	*	.10	.08	.06
206480	LVY2041	JVP	1	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	*	.12	.10	.08

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30 1 Reverse polarity to change color ◆ Blue Part No. = Limited Quantity Available

\* AVT = Avago | CML = CML Innovative | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite On | MCD = MCD Electronics | STA = Stanley | UNI = Unity Opto | ◆ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Standard-Output LEDs

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

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## Standard-Output LEDs (Continued)

Figure images on previous page

\* Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
2006676	LTL-42DINMHDP	LTO	3	Green/Yellow	Gr/yel diffused (rt. angle) .13" LDS	T1	0.119/3	0.38	0.17	0.10	2.1	12/6	565/585	60	*	\$ .19	\$ .15	\$ .12
333201	LG12340	JVP	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	*	.12	.10	.08
253631	HLMP-1503	FSC	1	Green	Green diffused	T1	0.119/3	0.19	1.00	0.10	2.1	1.0	565	60	*	.12	.10	.08
156930	LT0321-41-HE	LED	1	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1	32	567	56	*	.15	.12	.10
211086	LTL-4231N-022	LTO	2	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	40	*	.08	.06	.05
1956602	LTL4231N	LTO	1	Green	Green diffused	T1	0.118/3	0.175	1.00	0.10	2.1	12.6	565	60	*	.10	.08	.06
697637	LTL-4231N	LTO	2	Green	Green diffused	T1	0.118/3	0.175	1.00	0.10	2.1	12.6	565	60	*	.12	.10	.08
34606	LSG2040	JVP	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	*	.15	.12	.10
136274	LA44B/2G	JVP	3	Green	Green diffused (rt. angle) .60" LDS	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	*	.39	.35	.25
1554144	HLMP-1790-A0002	AVT	1	Green	Green tinted/diffused	T1	0.119/3	0.19	0.95	0.10	1.9	2.3	565	50	*	.29	.25	.22
175679	LVG2041	JVP	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	*	.11	.09	.07
253665	HLMP-1540	FSC	1	Green	Water clear	T1	0.119/3	0.19	1.00	0.10	45	2.2	565	45	*	.12	.10	.08
2081983	XLUG40W	+	1	Green	Water clear	T1	0.119/3	0.197	0.63	0.10	2.0	69	565	50	*	.10	.08	.06
333315	MV7441-JV	LIG	1	Green	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	120	565	40	*	.12	.10	.08
114681	LVG2043	JVP	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	*	.11	.09	.07
137411	LVB2040	JVP	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	*	.89	.79	.69
334457	LSB12640	JVP	2	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	40	*	.89	.79	.69
333383	UT63B1-41-M1A2	JVP	2	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	*	.49	.45	.35
333973	UT1871-81-M1	JVP	1	Red	Red diffused	T1 1/2	0.197/5	0.34	0.98	0.10	1.7	75	660	25	*	.12	.10	.08
334035	UT1871-81-UR-P18	JVP	1	Red	Red diffused	T1 1/2	0.197/5	0.334	0.94	0.10	1.9	250	660	25	*	.15	.12	.10
1766471	4304H1	CML	1	Red	Red diffused	T1 1/2	0.197/5	0.331	0.945	0.10	2.0	6.3	650	65	*	.19	.15	.12
253753	HLMP-3301	FSC	1	Red	Red diffused	T1 1/2	0.197/5	0.36	1.00	0.10	2.4	5.4	635	60	*	.15	.12	.10
242844	LT1811-81	LED	1	Red	Red diffused	T1 1/2	0.197/5	0.30	0.88	0.10	2.1	4.1	700	44	*	.12	.10	.08
302033	LT1814-81	LED	1	Red	Red diffused	T1 1/2	0.197/5	0.34	0.88	0.10	2.1	23.1	635	22	*	.10	.08	.06
333489	LUR3330/HO/A	JVP	1	Red	Red diffused	T1 1/2	0.197/5	0.34	0.98	0.10	1.5	380	660	40	*	.19	.15	.12
94511	LH3330	JVP	1	Red	Red diffused (XC556RB)	T1 1/2	0.197/5	0.31	0.81	0.08	2.3	3	697	36	*	.15	.12	.10
104248	LA93B/H-1	JVP	5	Red	Red diffused (XC410R)	T1 1/2	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	*	.25	.21	.19
34690	LFH3360	JVP	1	Red	Red diff. blinking (XC5410) 2	T1 1/2	0.197/5	0.30	0.94	0.07	3-12	2.8	697	—	*	.39	.35	.29
1554865	HLMP-4700-C00B2	AVT	5	Red	Red tinted/diffused	T1 1/2	0.197/5	0.36	1.05	0.10	1.7	2.3	626	50	*	.59	.55	.49
34745	LH3333	JVP	1	Red	Water clear (XC554R)	T1 1/2	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	*	.15	.12	.10
2006756	LTL-5224	LTO	1	Hi-eff Red	Water clear, low profile, flanged	T1 1/2	0.197/5	0.24	1.01	0.10	2.0	29	623	44	*	.12	.10	.08
334378	UT1841R-81	JVP	1	Hi-eff Red	Red diffused	T1 1/2	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	.10	.08	.06
697602	LTL-4223	LTO	1	Hi-eff Red	Red diffused	T1 1/2	0.197/5	0.34	1.00	0.10	2.0	19	635	36	*	.11	.09	.07
697522	LTL-307E	LTO	2	Hi-eff Red	Red diffused	T1 1/2	0.197/5	0.34	0.9	0.10	2.0	19	635	50	*	.11	.09	.07
2006692	LTL-10224WHCR	LTO	6	Hi-eff Red	Red diffused w/ plastic case	T1 1/2	0.197/5	0.44	0.49	0.10	2.0	60	635	30	*	.19	.15	.12
790081	LTL-10223W	LTO	2	Hi-eff Red	Red diffused, flangeless	T1 1/2	0.187/4.75	0.283	1.00	0.10	2.0	60	623	60	*	.11	.09	.07
2006730	LTL-307E-3	LTO	1	Hi-eff Red	Red diffused, flanged	T1 1/2	0.197/5	0.34	0.87	0.10	2.0	12.6	635	40	*	.10	.08	.06
334271	LA93B/L	JVP	5	Hi-eff Red	Red diffused PCB mnt indicators	T1 1/2	0.197/5	0.36	0.15	0.10	1.7	25	635	46	*	.29	.25	.19
697611	LTL-4224	LTO	1	Hi-eff Red	Red transparent	T1 1/2	0.197/5	0.34	1.00	0.10	2.0	90	635	16	*	.09	.07	.06
697573	LTL-4213	LTO	1	Bright Red	Red diffused	T1 1/2	0.197/5	0.34	1.00	0.10	2.1	3.7	697	36	*	.11	.09	.07
790225	LTL-307P	LTO	2	Bright Red	Red diffused	T1 1/2	0.197/5	0.34	0.90	0.10	2.1	5.6	697	50	*	.11	.09	.07
334174	LH13360	JVP	4	Red/Orange	Red diffused bi-color/solid state 1	T1 1/2	0.197/5	0.34	0.98	0.10	1.7	2 & 3	697/635	30	*	.19	.15	.12
34711	LEG3362	JVP	1	Red/Green	White diffused bi-color/bi-state 1	T1 1/2	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30	*	.19	.15	.12
334182	LGH3362	JVP	4	Red/Green	White diff. bi-color/solid state 1	T1 1/2	0.197/5	0.34	0.98	0.10	1.7	2 & 8	697/565	30	*	.19	.15	.12
34673	LHG3392	JVP	4	Red/Green	White diff. bi-color/tri-state 1	T1 1/2	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70	*	.19	.15	.12
1584773	HLMP-4000S010	AVT	5	Hi-eff Red/Gm	Diffused, bi-color	T1 1/2	0.197/5	0.36	1.05	0.10	2.2/1.9	4.2/2.1	568/635	65	*	.79	.69	.59
697557	LTL-30EFJ	LTO	4	Bright Red/Gm	White diffused, bi-color	T1 1/2	0.197/5	0.41	0.945	0.10	2.1/2.1	5.6/19	697/565	30	*	.29	.25	.19
152857	LT1841R-81-R	LED	1	Orange Red	Red diffused	T1 1/2	0.197/5	0.34	0.89	0.10	2.1	23	635	44	*	.15	.12	.10
210825	BVU-5M1QN1	BVO	2	Orange Red	Red diffused	T1 1/2	0.197/5	0.30	1.00	0.10	2.1	465	615	30	*	.10	.08	.06
107393	LE3330	JVP	1	Orange Red	Orange diffused (XC556A)	T1 1/2	0.197/5	0.30	1.02	0.08	2.3	12	635	36	*	.11	.09	.07
697696	LTL-4253	LTO	1	Yellow	Yellow diffused	T1 1/2	0.197/5	0.34	1.00	0.10	2.1	19	585	36	*	.11	.09	.07
334108	UT1831-81-S	JVP	1	Yellow	Yellow diffused	T1 1/2	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	*	.12	.10	.08
333622	LHY3330/HO	JVP	1	Yellow	Yellow diffused	T1 1/2	0.197/5	0.34	0.98	0.10	1.7	350	595	40	*	.15	.12	.10
697549	LTL-307Y	LTO	2	Yellow	Yellow diffused	T1 1/2	0.197/5	0.34	0.90	0.10	0.1	29	585	50	*	.12	.10	.08
34825	LY3330	JVP	1	Yellow	Yellow diffused (XC556Y)	T1 1/2	0.197/5	0.30	0.82	0.07	2.3	12	585	36	*	.15	.12	.10
104264	LA93B/Y-1	JVP	5	Yellow	Yellow diffused (XC410Y)	T1 1/2	0.197/5	0.35	0.89	0.08	2.3	25	585	46	*	.25	.21	.19
1995927	LTL-10253	LTO	1	Yellow	Yellow diffused, flanged	T1 1/2	0.187/4.75	0.283	1.00	0.10	2.1	12.6	585	60	*	.10	.08	.06
790381	LTL-553-11	LTO	5	Yellow	Yellow diffused, right angle PCB	T1 1/2	0.189/4.8	0.37	0.32	0.10	2.1	12.6	585	60	*	.15	.12	.10

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30 1 Reverse polarity to change color 2 Volt. shown is operating volt. range; no current limiting resistor required.

Standard-Output LEDs continued on next page

\* AVT = Avago Technology | BVO = BV Optotech | CML = CML Innovative | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LIG = Ligitek | LTO = Lite-On | + Mfr. Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



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## Standard-Output LEDs (Continued)

Figure images on page 25

★ Web Code: FAF

\* Order in multiples of 10

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
152831	LT1831-81-UR	LED	1	Bright yellow	Yellow diffused	T1 ¼	0.197/5	0.34	0.89	0.10	2.0	424	593	41	\$.39	\$.35	\$.25	\$.19
1554603	HLMP-3401-E0082	AVT	5	Amber	Amber diffused	T1 ¼	0.197/5	0.36	1.05	0.10	2.0	5.7	583	60	.49	.45	.39	.35
697653	LTL-4233	LTO	1	Green	Green diffused	T1 ¼	0.197/5	0.40	1.00	0.10	2.1	19	565	36	*	.10	.08	.06
693901	MCDL-5013GD	MCD	1	Green	Green diffused	T1 ¼	0.197/5	0.34	1.04	0.10	2.1	12.5	565	60	*	.09	.07	.055
697531	LTL-307G	LTO	1	Green	Green diffused	T1 ¼	0.197/5	0.34	1.00	0.10	2.1	19	565	50	*	.10	.08	.06
152822	LT1821-81-HE	LED	1	Green	Green diffused	T1 ¼	0.197/5	0.34	0.89	0.10	2.1	96	567	41	*	.15	.12	.10
253833	HLMP-4740	FSC	1	Green	Green diffused	T1 ¼	0.197/5	0.36	1.00	0.10	2.2	2.3	565	50	*	.15	.12	.10
334086	LG13740	JVP	1	Green	Green diffused	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	.10	.08	.06
34761	LG3330	JVP	1	Green	Green diffused (XC556G)	T1 ¼	0.197/5	0.31	0.79	0.09	2.3	12	565	36	*	.15	.12	.10
104256	LA93B/G-1	JVP	5	Green	Green diffused (XC410G)	T1 ¼	0.197/5	0.35	0.89	0.08	2.3	30	565	46	*	.19	.15	.12
790090	LT-10233W	LTO	1	Green	Green diffused, flangeless	T1 ¼	0.187/4.75	0.28	1.0	0.10	2.1	40	569	60	*	.12	.10	.08
94561	LF63360	JVP	1	Green	Green diffused blinking (XC5408)	T1 ¼	0.197/5	0.30	1.05	0.08	3-12	17	565	20	.39	.35	.29	.25
1554881	HLMP-4740-A0082	AVT	5	Green	Green tinted/diffused	T1 ¼	0.197/5	0.36	1.05	0.10	1.9	2.3	569	50	.49	.45	.39	.35
175687	LT0524-81	LED	1	Green	Green transparent	T1 ¼	0.197/5	0.24	1.07	0.07	2.1	44	567	30	*	.10	.08	.06
697661	LTL4234	LTO	1	Green	Green transparent	T1 ¼	0.197/5	0.34	1.00	0.10	2.1	60	565	16	*	.08	.06	.05
333956	LG3331	JVP	1	Green	Green transparent	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	150	565	20	*	.10	.08	.06
156962	LT1823-81-HE	LED	1	Green	Water clear	T1 ¼	0.197/5	0.34	0.87	0.10	2.1	500	567	19	*	.12	.10	.08
11359	LG3333	JVP	1	Green	Water clear (BG5704)	T1 ¼	0.197/5	0.30	1.04	0.07	2.3	100	565	20	*	.10	.08	.06
790321	LTL4238	LTO	1	Green	Water clear	T1 ¼	0.197/5	0.34	1.00	0.10	2.1	90	565	16	*	.12	.10	.08
333227	LG13530	JVP	2	Hi-eff green	Green diffused (flangeless)	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	25	565	70	*	.10	.09	.07
138691	LVB3330	JVP	1	Blue	Blue diffused	T1 ¼	0.197/5	0.34	0.98	0.10	4.8	10	430	36	.99	.89	.75	.69
2006764	LTL-2R3CBD3	LTO	1	Blue	Blue diffused, flanged	T1 ¼	0.197/5	0.34	0.87	0.10	3.5	50	468	45	.49	.39	.29	.25
137613	LSBI3333	JVP	1	Blue	Water clear	T1 ¼	0.197/5	0.34	0.98	0.08	3.8	160	430	15	.99	.89	.75	.69
119634	LHR3930	JVP	1	Red	Red diffused Jumbo (LT9952L)	T2 ½	0.315/8	0.44	0.84	0.07	2.0	100	660	44	*	.19	.15	.12
138683	LHR3630	JVP	2	Red	Red diffused XJumbo (XC10R)	T3 ¼	0.394/10	0.40	1.04	0.10	2.0	100	660	32	.29	.25	.19	.15
98984	LVG3630	JVP	1	Green	Green diffused XJumbo (XC10G)	T3 ¼	0.394/10	0.40	1.07	0.08	2.3	40	565	32	.29	.25	.19	.15
104889	LEG5292	JVP	7	Red/Green	White diff. bi-color rectangular <sup>1</sup>	2x5mm	—	0.27	1.02	0.08	2.3	6/6	695/565	116	.29	.25	.19	.15
790356	LTL-433G	LTO	7	Green	Green diffused, rectangular	2x5mm	—	0.30	1.00	0.10	2.1	3.7	565	140	*	.10	.08	.07
320282	566-0306	DIA	8	Yellow	Yellow diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.1	3.5	583	110	.29	.25	.19	.15
320274	566-0206	DIA	8	Green	Green diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.2	4	565	110	.39	.35	.25	.19
320291	566-0406	DIA	8	Red	Red diffused, rectangular	2x5mm	15x4x7mm	0.28	0.11	0.10	2.0	7.4	635	140	.39	.35	.25	.19

\*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 30

<sup>1</sup> Reverse polarity to change color



Fig. 1

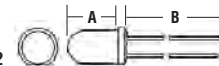


Fig. 2

\* Order in multiples of 10

## Medium-Output LEDs

★ Web Code: MBW

Part No.	Product No.	Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
156954	LT0373-41	LED	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7	600	660	46	*	\$.19	\$.15	\$.12
333340	LHE2643	JVP	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	700	620	40	*	.17	.15	.12
333307	LUY2643-1	JVP	1	Yellow	Water clear	T1	0.197/5	0.13	0.98	0.10	1.7	900	595	40	.35	.29	.25	.19
98968	QLMP-LB98	AVT	2	Blue	Blue clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	550	470	70	.39	.35	.29	.19
334749	UT63B3-41-UR33	JVP	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	.79	.69	.59	.49
334764	CMD204UWC-JV	JVP	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	.99	.89	.75	.65
11797	QLMP-D141	FSC	1	Red	Water clear	T1 ¼	0.197/5	0.29	1.05	0.07	2.0	350	660	8	*	.19	.15	.12
333497	LSR13233	JVP	1	Red	Water clear	T1 ¼	0.197/5	0.35	0.98	0.10	1.5	720	660	18	*	.19	.15	.12
2077052	HLMP-ED31	AGT	2	Red	Water clear	T1 ¼	0.197/5	0.34	0.94	0.10	2.0	1000	630	30	*	.15	.12	.09
206519	LHR3331	JVP	1	Red	Red transparent	T1 ¼	0.197/5	0.24	1.07	0.07	2.0	660	550	20	*	.19	.15	.12
152864	BUV015SR4	JVP	1	Red Super Bright	Water clear	T1 ¼	0.197/5	0.34	0.89	0.10	1.9	600	660	20	*	.12	.10	.08
351089	MCDL-517URD-F	JVP	1	Super Red	Red diffused blinking	T1 ¼	0.197/5	0.34	1.00	0.10	1.8	500	660	120	.49	.45	.39	.35
333631	LUE13733	JVP	1	Orange	Water clear	T1 ¼	0.197/5	0.34	0.98	0.10	1.7	700	620	25	.29	.25	.21	.19
152792	LT1833-81- M1	LED	1	Yellow	Water clear	T1 ¼	0.197/5	0.34	0.89	0.10	2.1	1040	593	19	.29	.25	.19	.15
206501	LTV3331	JVP	1	Yellow	Yellow transparent	T1 ¼	0.197/5	0.24	1.07	0.07	2.2	700	595	20	*	.19	.15	.12
153154	LVG3333	JVP	1	Green	Water clear (HLMP-8509)	T1 ¼	0.197/5	0.36	0.90	0.10	2.3	500	565	20	*	.15	.12	.10
333551	LVG13233	JVP	1	Green	Water clear	T1 ¼	0.197/5	0.35	0.98	0.10	1.7	600	565	18	*	.19	.15	.12
134333	383UBC/H2	JVP	1	Blue	Water clear	T1 ¼	0.197/5	0.34	1.00	0.10	3.8	630	428	30	1.49	1.35	1.19	1.09
334465	LDBK3331/H0	JVP	1	Blue	Blue transparent	T1 ¼	0.197/5	0.34	0.98	0.10	3.5	900	470	26	.89	.79	.65	.59
1555331	HLMP-CB30-M0000	AVT	1	Blue	Blue non-diffused	T1 ¼	0.197/5	0.34	1.00	0.10	3.8	520	470	30	1.09	.89	.75	.65

\* AGT = Agilent | AVT = Avago Technology | DIA = Dialight | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On | MCD = MCD Electronics

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## High-Output LEDs

• Typical DC forward current 20mA

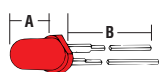


Fig. 1

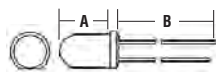


Fig. 2



Fig. 3  
(Piranha)



Fig. 4

★ Web Code: RBJ

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle°	Pricing			
								A"	B"						1	10	100	1000
98950	QLMP-LM98	AVT	2	Green	Green clear (oval)	T1	0.119/3	0.28	0.94	0.10	3.2	2400	525	70	*	\$ .19	\$ .15	\$ .12
217525	MCDPW-3004C	JVP	2	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	1.39	1.25	1.09	.99
197641	BVT-529TT8E	JVP	2	Yellow	Yellow clear (oval)	T1 ½	0.178/4.5	0.29	1.09	0.08	2.3	3600	592	70	.59	.49	.39	.35
2006801	LTL-2H3VAKNT	LTO	1	Red	Water clear, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	2.0	3400	621	15	.49	.39	.29	.25
197617	BUU-5E1QH4E	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.30	1.05	0.08	1.8	2180	630	15	.29	.25	.19	.15
334423	UT9C13-86-UDC2	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.25	.21	.19	.16
333518	LUR13233	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	.25	.21	.19	.16
333526	LUR3833	JVP	1	Red	Water clear	T1 ¾	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	.25	.21	.19	.16
1586189	UT1813-83-UJEI	LED	1	Red	Water clear	T1 ¾	0.197/5	0.34	1.00	0.10	2.1	5500	632	25	.39	.35	.29	.19
1584917	HLMP-EG08-Y2000	AVT	1	Red	Red untinted/non-diffused	T1 ¾	0.197/5	0.34	1.20	0.10	1.9	9300	635	6	.59	.45	.35	.29
261622	LT1873-81-UR-P22	LED	2	Red	Water clear	T1 ¾	0.197/5	0.34	0.89	0.10	1.9	1200	660	25	.25	.21	.19	.16
333447	UT1873-81-UR-P22R	JVP	2	Super Red	Water clear	T1 ¾	0.197/5	0.34	0.89	0.10	1.9	1600	660	25	.25	.21	.19	.16
152806	LT1873-81-UR	LED	1	Ult. Bright Red	Water clear	T1 ¾	0.197/5	0.34	0.89	0.10	1.9	2000	660	12	*	.19	.15	.12
334482	UT1813-86-UC9T-P27	JVP	1	Ult. Bright Red	Water clear	T1 ¾	0.197/5	0.34	0.94	0.10	2.2	3500	630	15	.49	.45	.35	.29
197683	BVT-5E1QT4ER	JVP	1	Orange Red	Water clear	T1 ¾	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.59	.55	.45	.39
2006799	LTL-2R3VYKNT	LTO	1	Orange	Water clear, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	2.0	1300	595	30	*	.15	.12	.10
333665	LEF3833	JVP	1	Orange	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	1700	620	12	.29	.22	.19	.16
333649	LHE3333	JVP	1	Orange	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	1800	620	20	*	.19	.15	.12
333657	LUE3333	JVP	2	Orange	Water clear	T1 ¾	0.197/5	0.34	0.94	0.10	2.1	3400	620	20	.39	.35	.25	.19
333673	LUE3833	JVP	2	Orange	Water clear	T1 ¾	0.197/5	0.34	0.94	0.10	2.1	5000	620	12	.39	.35	.25	.19
215598	LT2K33-81-UC9TR	LED	1	Yellow	Water clear	T1 ¾	0.197/5	0.35	0.89	0.10	2.2	5000	592	5	.49	.39	.35	.29
333577	LUYS3333	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	2700	587	20	.39	.35	.25	.19
333614	LUY3833H	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	.45	.39	.29	.25
333569	LUY3333/A	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	*	.15	.12	.10
333593	LHY3833	JVP	1	Yellow	Water clear	T1 ¾	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	.29	.22	.19	.16
333606	LHY3833	JVP	2	Yellow	Water clear	T1 ¾	0.197/5	0.34	0.94	0.10	2.1	2700	595	12	*	.15	.12	.10
197675	BVT-5E1TT4E	JVP	2	Yellow	Water clear	T1 ¾	0.197/5	0.34	1.00	0.10	2.3	7800	592	15	.55	.49	.39	.35
2006772	LTL-2H3VYKNTJ	LTO	1	Amber/Yellow	Water clear, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	2.0	3400	595	15	*	.15	.12	.10
2006781	LTL-2R3SYKS	LTO	1	Amber	Water clear, flanged	T1 ¾	0.197/5	0.34	0.87	0.10	2.2	2800	594	30	.39	.35	.25	.19
334473	LDGL3333/H0	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	3.5	3400	502	22	.79	.69	.65	.59
183214	MCDPG-503PC1	JVP	1	Green	Water clear	T1 ¾	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	1.49	1.35	1.19	1.09
1586197	UT4123-4D-UBC	LED	1	Green	Water clear	T1 ¾	0.197/5	0.32	1.00	0.10	3.0	2500	500	28	.55	.45	.35	.29
2077079	HLMP-CM39-UVCCD	AGT	2	Green	Untinted/non-diffused	T1 ¾	0.197/5	0.34	0.94	0.10	3.2	5000	535	30	.49	.45	.39	.35
183222	MCDL-513SBC4	JVP	1	Blue	Water clear	T1 ¾	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	1.39	1.25	1.09	.99
1584870	HLMP-CW30-SV000	AVT	1	White	Untinted/non-diffused	T1 ¾	0.197/5	0.34	1.20	0.10	3.6	1900	—	30	1.39	1.25	1.09	.99
334502	LWK3333	JVP	1	White	Water clear	T1 ¾	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	.89	.79	.65	.59
334773	UT18W3-86-UF1-P22	JVP	1	White	Water clear	T1 ¾	0.197/5	0.34	1.00	0.10	3.6	2900	—	25	1.35	1.25	1.09	.99
183231	BUU-5C14WK4-B	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	1.06	0.08	3.5	3000	—	10	1.35	1.25	1.09	.99
142894	BUU-5E1WK4-B	JVP	1	White	Water clear	T1 ¾	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	1.35	1.25	1.09	.99
1870796	MV8W00	FSC	1	White	Water clear	T1 ¾	0.197/5	0.33	1.00	0.10	3.8	2500	—	20	2.49	2.29	2.09	1.95
320531	MCDL-5013UWC	JVP	1	White	Water clear	T1 ¾	0.197/5	0.30	1.00	0.10	3.8	5000	—	15	.99	.89	.75	.65
2077061	EM-503QWC-R12	JVP	2	White	Water clear	T1 ¾	0.197/5	0.34	1.00	0.10	4.5	5000	—	25	.99	.89	.75	.65
2005702	LTL912VEKSA	LTO	3	Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.1	1200	632	50	.49	.45	.35	.29
664405	MCDL-1860UEC-TL	JVP	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	625	75	.85	.75	.59	.55
1952222	LTL912SEKSA	LTO	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.5	3750	628	60	.59	.55	.45	.39
664413	MCDL-1870UEC-TL	JVP	3	Hi-Eff Red	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	.85	.75	.59	.55
2005690	LTL911VYKSA	LTO	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.1	600	595	70	.39	.35	.25	.19
2005729	LTL9145YKS	LTO	3	Amber	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	2.5	2000	596	70	.59	.55	.45	.39
404603	MCDL-1860UGC-TL	JVP	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	1.49	1.35	1.19	1.09
664376	MCDL-1870UGC-TL	JVP	3	Green	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	7500	525	30	1.49	1.35	1.19	1.09
404591	MCDL-1860UBC-15C	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	1.49	1.35	1.19	1.09
664368	MCDL-1870UBC-TL	JVP	3	Blue	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2300	470	40	1.49	1.35	1.19	1.09
664341	MCDL-1870UWC-15C	JVP	3	White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	1.69	1.55	1.39	1.29
404582	MCDL-1860UWC-15C	JVP	3	Ultra White	Water clear (7.62mm sq.)	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	1.69	1.55	1.39	1.29
2005737	LTJ-811Y	LTO	4	Yellow	Sphere lens (12-pin)	20mm dome	0.8/20	0.91	0.53	0.60	2.1	25	565	30	.99	.89	.75	.65

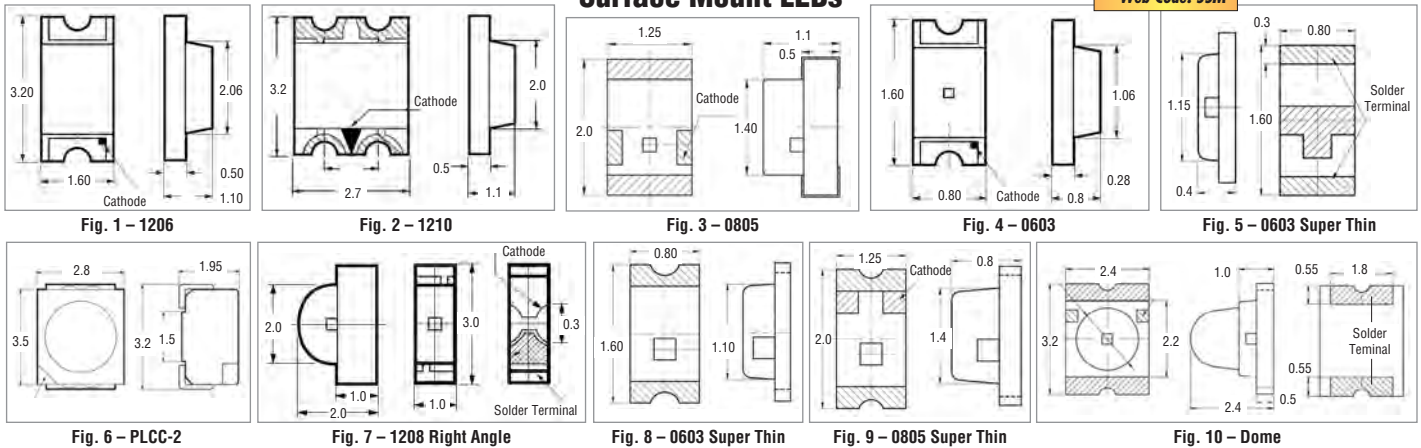
\* AGT = Agilent | AVT = Avago Technology | FSC = Fairchild Semi | JVP = Jameco ValuePro | LED = Ledtech | LTO = Lite-On

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Surface Mount LEDs

\* Web Code: SSM



## Standard Surface Mount LEDs

\* Order in multiples of 10

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	1000
1556414	HSMH-C150	AVT	1	Red	Water clear	1.8	20	17 @ 20	630	130	*	\$.12	\$.10	\$.08
697733	LTST-C150CKT	LTO	1	Red	Water clear	1.8	40	25 @ 20	660	130	*	.12	.10	.08
1556422	HSMH-C170	AVT	1	Red	Water clear	1.8	20	17 @ 20	660	170	*	.12	.10	.08
1260357	LTST-C190CKT	LTO	4	Red	Water clear	1.8	40	10 @ 10	660	130	*	.09	.07	.05
1556431	HSMH-C190	AVT	4	Red	Water clear	1.8	20	17 @ 20	610	170	*	.12	.10	.08
658321	HSL-204DR	UNI	6	Red	Water clear	1.8	20	50 @ 20	657	130	*	.19	.15	.12
1557054	HSMS-C660	AVT	7	Red	Water clear	1.9	20	5 @ 20	639	155	*	.19	.15	.12
334318	LG-150E-DT	JVP	1	Hi-eff Red	White diffused	1.7	20	8 @ 10	643	150	*	.12	.10	.08
1556300	HSMF-C155	AVT	2	Hi-eff Red/Green	Water clear	2.1/2.2	20/20	10/15 @ 20	630/570	170/170	*	.19	.15	.12
1260365	LTST-C150EKT	LTO	4	Red Orange	Water clear	2.0	30	2 @ 10	630	130	*	.07	.05	.035
1996111	LTST-C150YKT	LTO	1	Yellow	Water clear	2.1	20	6 @ 10	585	130	*	.09	.07	.05
697813	LTST-C190YKT	LTO	4	Yellow	Water clear	2.1	20	6 @ 10	585	130	*	.09	.07	.06
334351	YT95531/TRI	LIG	6	Yellow	Water clear	1.7	20	7 @ 10	585	84	*	.15	.12	.10
334289	LG150E-CT	JVP	1	Orange	Water clear	1.7	20	6 @ 20	635	150	*	.12	.10	.08
697741	LTST-C150GKT	LTO	1	Green	Water clear	2.1	30	6 @ 10	565	130	*	.12	.10	.08
697805	LTST-C190GKT	LTO	4	Green	Water clear	2.1	30	6 @ 10	565	130	*	.11	.09	.08
334369	LVG9553/TRI	LIG	6	Green	Water clear	1.7	20	9 @ 10	565	84	*	.15	.12	.10
1556406	HSMG-C660	AVT	7	Green	Water clear	2.2	20	9 @ 20	570	155	.29	.25	.19	.15
2046441	LTST-C150CBKT	LTO	1	Blue	Water clear	3.7	20	20 @ 20	468	130	.29	.25	.19	.15
334781	LG-150DBK-CT	JVP	1	Blue	Water clear	3.5	20	40 @ 20	470	150	.59	.55	.45	.39
2047945	LTST-C191TBKT	LTO	8	Blue	Water clear	3.4	20	30 @ 20	468	130	.29	.25	.19	.15
2033164	LTW-C193TS5	LTO	5	White	Water clear	2.95	20	78 @ 5	—	130	*	.15	.12	.10
334756	LT5KW3-AA-UAE3	JVP	6	White	Water clear	3.2	20	550 @ 20	—	120	.39	.35	.29	.25
658347	HSL-204MW	UNI	6	White	Water clear	3.5	20	400 @ 20	—	130	.49	.45	.39	.35

## Ultra-Bright AlInGaP Surface Mount LEDs

\* Web Code: UBA

\* Order in multiples of 10

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	1000
658312	MSL-154DR	UNI	1	Red	Water clear	1.8	20	22.5 @ 20	660	130	*	\$.15	\$.12	\$.10
658304	MSL-174DR	UNI	4	Red	Water clear	1.8	20	22.5 @ 20	660	130	*	.12	.10	.08
658291	MSL-194DR	UNI	4	Red	Water clear	1.8	20	22.5 @ 20	660	130	*	.10	.08	.06
697750	LTST-C150KRKT	LTO	1	Super Red	Water clear	2.0	30	54 @ 20	639	130	*	.15	.12	.10
697784	LTST-C170KRKT	LTO	3	Super Red	Water clear	2.0	30	54 @ 20	639	130	*	.15	.12	.10
1557020	HSMS-C150	AVT	1	Hi-eff Red	Water clear	2.1	20	10 @ 20	595	130	*	.15	.12	.10
1557046	HSMS-C190	AVT	4	Hi-eff Red	Water clear	2.1	30	10 @ 20	630	130	*	.15	.12	.10
1557071	HSMY-C150	AVT	1	Yellow	Water clear	2.1	20	8 @ 20	589	130	*	.15	.12	.10
697792	LTST-C170KYKT	LTO	3	Yellow	Water clear	2.0	20	50 @ 20	595	130	*	.12	.10	.09
1556369	HSMG-C150	AVT	1	Green	Water clear	2.2	20	15 @ 20	570	170	*	.15	.12	.10
2039902	LTST-C150FKT	LTO	1	Green	Water clear	2.1	20	14.2 @ 20	565	130	*	.15	.12	.10
697776	LTST-C170KGKT	LTO	3	Green	Water clear	2.0	30	35 @ 20	574	130	*	.15	.12	.10
1556385	HSMG-C190	AVT	4	Green	Water clear	2.2	20	15 @ 20	570	130	*	.15	.12	.10
1556211	HSMC-A100-Q00J1	AVT	6	Red	Water clear	1.9	20	100 @ 20	635	120	*	.19	.15	.12
1558101	HSMC-A100-R00J1	AVT	6	Red	Water clear	3.9	20	140 @ 20	639	120	*	.19	.15	.12

\* AVT = Avago Technology | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | UNI = Unity Opto Technology

Ultra-Bright AlInGaP SMT LEDs continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Surface Mount LEDs (Continued)

### Ultra-Bright AlInGaP Surface Mount LEDs (Continued)

Figure images on previous page Fig. 11

\* Web Code: UBA

\* Order in multiples of 10

Part No.	Mfr. Part No.	*Mfr.	Fig.	Emitting Color	Lens/Feature Description	Typical Vf (V)	If Max. (mA)	Iv Typical mcd @ mA	Peak Wavelength (nm)	Viewing Angle (2x Theta)	Pricing			
											1	10	100	1000
658339	MSL-204UYL	UNI	6	Yellow	Water clear	2.0	20	120 @ 20	592	120	\$ .29	\$ .25	\$ .19	\$ .15
1585055	HSMA-A100-Q00J1	AVT	6	Yellow Amber	Water clear	2.1	20	100 @ 20	592	120	*	.19	.15	.12
1556342	HSMG-A100-J02J1	AVT	6	Yellow Green	Water clear	2.2	20	18 @ 20	565	120	*	.15	.12	.10
1585063	HSMA-A101-S3WJ1	AVT	6	Amber	Water clear	2.1	20	220 @ 20	592	120	*	.15	.12	.10
692537	MSL-204G	UNI	6	Green	Water clear	2.1	20	120 @ 20	570	120	.39	.35	.25	.19
658355	MSL-204MB	UNI	6	Blue	Water clear	3.5	20	120 @ 20	468	120	.59	.49	.39	.35
2075671	LTST-C191AKT	LTO	8	Orange	Water clear	2.1	20	2 @ 10	610	130	*	.10	.08	.06
2075680	LTST-C191KSKT	LTO	8	Yellow	Water clear	2.1	20	4.5 @ 10	585	130	*	.12	.10	.08
2075612	LTST-C171KEKT	LTO	9	Red	Water clear	2.0	20	50 @ 20	632	130	*	.12	.10	.08
2075639	LTST-C171KSKT	LTO	9	Yellow	Water clear	2.0	30	60 @ 20	588	130	*	.10	.08	.06
2075621	LTST-C171KYKT	LTO	9	Amber Yellow	Water clear	2.0	30	50 @ 20	595	130	*	.10	.08	.06
2075663	LTST-C190KFKT	LTO	9	Amber	Water clear	2.0	30	60 @ 20	611	130	*	.12	.10	.08
697830	LTST-C930KRKT	LTO	10	Super Red	Water clear	2.0	30	850 @ 10	639	25	*	.19	.15	.12
2075701	LTST-C930KAKT	LTO	10	Red Orange	Water clear	2.0	30	1050 @ 10	621	25	*	.10	.08	.06
697821	LTST-C930KGKT	LTO	10	Green	Water clear	2.0	30	365 @ 20	574	25	*	.19	.15	.12
2081967	LAW57B-GX-2	+	11	Amber*	Water clear	2.2	400	6500 @ 400	614	120	1.75	1.59	1.39	1.25

\* Heat sink required; use P/N 326596 heat sink, P/N 236823 compound and P/N 1582575 insulator pg 24



### Conxrite Locking Header

This locking header provides positive locking between PCB and cable assembly.

\* Web Code: KAL

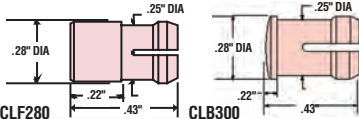
Part No.	Mfr. Part No.	Description	1	10	100	1000
417682	CNXH03NTP	Horizontal 3-pin	\$ .29	\$ .25	\$ .19	\$ .17



### T1 1/4 Cliplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.

\* Web Code: UAK



Part No.	Mfr. Part No.	Size	Color	1	10	100	1000
417818	SML190RTP	T1	Red	\$ .29	\$ .25	\$ .19	\$ .16
29612	CLF280RTP	T1 1/4	Red	.35	.29	.25	.19
14277	CLF280CTP	T1 1/4	Clear	.35	.29	.25	.19
124927	CLB300CTP	T1 1/4	Clear	.35	.29	.25	.19

### Conxrite Pre-Wired Solderless LED Interconnect

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.

\* Web Code: UAK



For complete specifications see [www.Jameco.com](http://www.Jameco.com)

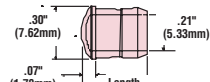
Part No.	Mfr. Part No.	LED Size	Termination (leads)	Length	1	10	100
417391	CNXBE2124	T1 (3mm)	2 pin connector	24"	\$2.49	\$2.25	\$1.75
417498	CNXC2108	T1 1/4 (5mm)	Stripped leads (2)	8" ....	1.29	1.15	1.05
417501	CNXCE2112	T1 1/4 (5mm)	Stripped leads (2)	12" ....	1.75	1.49	1.25
143037	CNXCE2108	T1 1/4 (5mm)	2 pin connector	8" ....	1.95	1.75	1.59
417463	CNXCE2112	T1 1/4 (5mm)	2 pin connector	12" ....	1.95	1.75	1.49
143053	CNXCE2118	T1 1/4 (5mm)	2 pin connector	18" ....	2.25	1.95	1.75
673820	CNX440-X02-4-1-08	T1 1/4 (5mm)	2 pin conn. (twist fit)	8" ....	1.95	1.75	1.49
417535	CNXDF2604	T1 1/4 (5mm)	Stripped leads (3)	4" ....	1.49	1.25	.99
417607	CNXDX2612	T1 1/4 (5mm)	Stripped leads (3)	12" ....	1.35	1.19	.99
417615	CNXDX2618	T1 1/4 (5mm)	Stripped leads (3)	18" ....	1.35	1.19	.99
417560	CNXDF2618	T1 1/4 (5mm)	3 pin connector	18" ....	1.95	1.75	1.59
417578	CNXDF2624	T1 1/4 (5mm)	3 pin connector	24" ....	1.95	1.75	1.59



### Panel Lens for PCB Mounted T1 1/4 LEDs

T1-3/4 size low-profile panel lenses provide 180° viewing angle.

\* Web Code: UAK



Part No.	Mfr. Part No.	Size	Color	Length	1	10	100	1000
143132	CMC321CTP	T1 1/4	Clear	.33"	\$ .35	\$ .29	\$ .25	\$ .19
417771	CML325CTP	T1 1/4	Clear	.46"	.35	.29	.25	.19



### T1 1/4 LED Housing

- Right angle housing
- For T1 1/4 LEDs
- Pre-wire solderless LED interconnection
- LED panel lenses and mounts
- LED PCB mounts sockets and standoff

\* Web Code: XDT



Part No.	Mfr. Part No.	10	100	1000
1554890	HLMP-5029	\$ .21	\$ .18	\$ .16

### T1 & T1 1/4 LED Mounting Hardware

\* Web Code: KAL

- Color: black
- Order in multiples of 10



Part No.	Mfr. P/N	Mfr. Description	Mounting Hole Dia.	Panel Thickness	Pricing		
					10	100	1000
95513	LMH100	LIG T1 snap-in	.185"	up to .070"	\$ .12	\$ .10	\$ .08
23077	LMH200	LIG T1 1/4 ring/clip	.257"	up to .125"	.15	.14	.12
95521	LMH250	LIG Rect. snap in	.306" x .202"	up to .092"	.12	.10	.08
379815	MCD-10MM	JVP 10mm snap in	.539"	up to .1025"	.25	.21	.19

### T1 & T1 1/4 LEDs & LED Mounting Hardware Kit

- Includes:**
- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and labels
  - 10 ea. standard-output LEDs (34657, 114673, 114681, 34606, 34825, 34711, 104248, 34690, 34761, 104256, 34673), pg 26 & 11359, pg 27 and LED lens mount (14277), pg 30
  - 100 ea. LEDs (202471), pg 25 & 2006730, pg 26
  - 100 ea. LED mounting hardware (95513, 23077), pg 30

SAVE \$15



Part No.	Description	Weight	1	5
84996	560-piece LEDs & LED hardware kit	5.0 lbs.	\$69.95	\$59.95

### Design Engineer's 139-Pc. LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.

- 139-piece hardware kit for T1 and T1 1/4 LEDs
- Clear plastic case w/ dividers
- Size: 8.5"L x 4.5"W x 1.5"H



Part No.	Description	Weight	1	10
418731	Engineer's LED hardware kit	0.4 lbs.	\$22.95	\$19.95



### 1" x 1.56" LED Backlight

- IC compatible
- D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA
- View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA



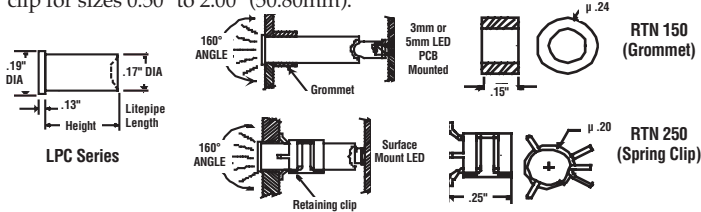
Part No.	Mfr. Part No.	LED Material	Emitting Color	Lens Color	1	10	100
302535	LT1F24-A2-S8	GaP	Green	G.C. ....	\$1.49	\$1.25	\$ .99

\* AVT = Avago | JVP = Jameco ValuePro | LIG = Ligitek | LTO = Lite-On | UNI = Unity Opto Tech. | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Litepipes For Standard and Surface-Mount LEDs

Designed to produce 160° viewing angle of transmitted light from PCB mounted LEDs. Accommodates both 0.119" (3mm) and surface mount LEDs. Litepipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08mm) to 2.00" (50.80mm). Use RTN grommet for sizes 0.20" thru 0.50" and RTN spring clip for sizes 0.50" to 2.00" (50.80mm).



Part No.	Height	1	10	100	Part No.	Height	1	10	100
418108	0.200"	\$.29	\$.25	\$.19	418255	0.50"	\$.29	\$.25	\$.19
418116	0.220"	.29	.25	.19	418263	0.56"	.29	.25	.19
418132	0.260"	.29	.25	.19	418301	0.76"	.29	.25	.19
418141	0.280"	.29	.25	.19	418327	0.86"	.29	.25	.19
418159	0.300"	.29	.25	.19	418271	0.60"	.29	.25	.19
418167	0.320"	.29	.25	.19	418298	0.70"	.29	.25	.19
418183	0.360"	.29	.25	.19	418319	0.80"	.29	.25	.19
418191	0.380"	.29	.25	.19	418343	0.96"	.29	.25	.19
418204	0.400"	.29	.25	.19	418351	1.00"	.29	.25	.19
418212	0.420"	.29	.25	.19	418360	1.25"	.29	.25	.19
418239	0.460"	.29	.25	.19	418378	1.50"	.29	.25	.19
418247	0.480"	.29	.25	.19	418386	1.60"	.29	.25	.19
					418394	2.00"	.29	.25	.19

Order in multiples of 10

Part No.	Mfr. P/N	Description	10	100	1000
418407	RTN150	Grommet	\$.07	\$.06	\$.05
418415	RTN250	Spring clip	.07	.06	.05

## 3 & 10W Constant Current LED Drivers

- Type: AC – DC
- Input voltage: 100-240VAC @ 50-60Hz
- 3-watt LED drivers can drive 2 to 8 1W LEDs or 1 to 3 3W LEDs
- 10-watt LED drivers can drive 3 to 8 1W LEDs
- Operating temperature range: -20°C to 40°C
- UL/CUL/CE approved
- 2006852/2006861: 20AWG, 3.9'L wires
- 2006879/2006887: Plug in type, 7ft. cable w/ 2.1mm x 5.5mm center positive

Part No.	Mfr. Part No.	Description	Output Volt./Curr.	1	10
2006861	LD-CU7021AF	3-watt LED driver	3-21VDC @ 700mA ...	\$18.95	\$16.95
2006887	LD-PI7021AF	3-watt LED driver	3-21VDC @ 700mA .....	18.95	16.95
2006852	LD-CU3536AF	10-watt LED driver	3-36VDC @ 350mA .....	17.95	15.95
2006879	LD-PI3536AF	10-watt LED driver	3-36VDC @ 350mA .....	17.95	15.95

## Dual CCFL Kits

CCFL (cold cathode fluorescent lights) kits are great for under cabinet lighting, spot/track lighting, orientation/step lighting, gaming/casino lighting, task lighting, and appliance lighting applications. This kit is a dual CCFL that comes with an inverting power supply (12VDC @ 5mA input; 620V output), wire harnesses and connectors for easy set-up.

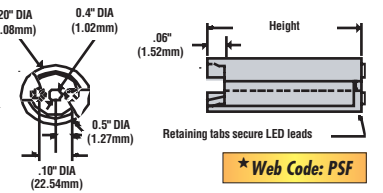
- Lamp diameter: 3mm (protected inside a clear acrylic tube)
- Length per lamp: 300mm (12")
- Brightness: 30,000cd
- Average lifespan: 30,000 hours
- Supply voltage: 620V
- Lamp current: 5mA

Part No.	Mfr. Part No.	Color	1	10
2006975	CCFL2W	White .....	\$14.95	\$13.49
2006983	CCFL2R	Red .....	14.95	13.49
2006991	CCFL2G	Green .....	14.95	13.49
2007003	CCFL2UV	Ultra violet .....	14.95	13.49
2007011	CCFL2BU	Blue .....	14.95	13.49

See page 185 for Flashing LED Kits

## LED PCB Standoffs for 2 & 3-Lead Components

Designed for PCB mounting of multi-lead devices (e.g. LEDs, resistors, capacitors, diodes, and IR emitter/detector lamps). Provide lead separation, retention and lateral stability, and height control. Standoffs vary in height from 0.12" to 1.00". Standoffs are UL94V0 material.



\* Web Code: PSF

Order in multiples of 10

Part No.	Height	10	100	1000	Part No.	Height	10	100	1000
418431	0.14"	\$.07	\$.06	\$.05	418597	0.44"	\$.07	\$.06	\$.05
418458	0.18"	.07	.06	.05	418618	0.48"	.07	.06	.05
418474	0.22"	.07	.06	.05	418626	0.50"	.07	.06	.05
418482	0.24"	.07	.06	.05	418642	0.60"	.07	.06	.05
418503	0.26"	.07	.06	.05	418651	0.65"	.07	.06	.05
418511	0.28"	.07	.06	.05	418677	0.75"	.07	.06	.05
418520	0.30"	.07	.06	.05	418685	0.80"	.07	.06	.05
418546	0.34"	.07	.06	.05	418693	0.85"	.07	.06	.05
418554	0.36"	.07	.06	.05	418706	0.90"	.07	.06	.05
418589	0.42"	.07	.06	.05	418714	0.95"	.07	.06	.05
					418722	1.00"	.07	.06	.05

## LED Light Strip Modules

\* Web Code: BDZ

- Applications: running light or light source for under cabinets, closets, RVs & enclosures



Part No.	Mfr.	Mfr. Part No.	Color	Viewing Angle	1	10	100
683235	ValuePro	LS1255-150A112	Yellow	100° .....	\$12.95	\$11.49	\$10.25
1586171	Ledtech	UY19209-627	White	120° .....	21.95	19.95	17.95

## Power LED Driver Modules

- Delivers accurate constant current required by most high power LEDs
- High efficiency due to switch mode principle
- Built-in rectifier for easy connection to AC source
- Input voltage: 6-12VAC/9-18VDC
- Power consumption: 650mA max.
- Size: 1.8"L x 1.2"W x 0.64"H • Short-circuit protected
- Also suited as fixed current NiCd/NiMH battery charge circuit
- Constant current source:

2006916: 350mA, compatible with up to 4 L-HP1P series power LEDs  
2006924: 700mA, compatible with up to 3 L-HP3P series power LEDs  
2006932: 350mA or 700mA

Part No.	Mfr. Part No.	Description	1	10
2006916	VM143/1W	1-watt module .....	\$32.95	\$29.65
2006924	VM143/3W	3-watt module .....	35.95	32.35
2006932	K8071	1-watt/3-watt module kit .....	15.95	14.49

## High Power LEDs

- Superior high-flux output and high luminance
- Low thermal resistance • ESD protection
- Color: pure white • Viewing angle: 90°
- Forward voltage/current:
- 2006895: 3.2V @ 350mA; 2006908: 3.2V @ 1A
- Use heatsink P/N 696600 and thermal compound P/N 236823
- Use insulator P/N 1582575 to isolate heatsink from case

Part No.	Mfr. Part No.	Description	Luminous Flux	1	10
2006895	L-HP1PW	1-watt power LED	40lm .....	\$7.95	\$7.25
2006908	L-HP3PW	3-watt power LED	120lm .....	14.95	13.49

## 2-150mA T1 & T1 1/4 LED Tester

Pocket-size LED tester makes it easy to check functionality, color, brightness, uniformity and side-by-side testing. Plug any leaded LED into any 2 rows of sockets. 13.1" spaced positions test T1/T1 1/4 LEDs from 2 to 30mA; 13.2" spaced positions test larger footprint (high flux) LEDs from 20 to 150mA. Uses 9V battery (P/N 198731 – sold separately)

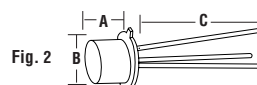
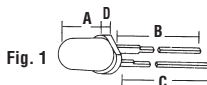
Part No.	Description	Size (L x W x H)	1	10	25
355805	LED tester	3.1" x 2.2" x 0.9" .....	\$9.95	\$8.95	\$7.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Infrared & Visible Light Emitters & Detectors

- Use for remote control and/or for fiber optics

\* Web Code: VAP



Part No.	Product No.	*Mfr.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vt @ If	nm	mWatts	Pricing		
							A	B	C	D				1	10	100
112150	LIR2043	LIG	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2 @ 20mA	940	5	\$.25	\$.19	\$.15
372710	UT0383-41-940	JVP	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3 @ 50mA	940	13	.29	.25	.19
1950825	L-34F3CS	◆	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.20	1.00	1.06	0.04	1.2 @ 20mA	940	80	.39	.35	.29
112176	LPT2023	LIG	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	30 @ 0.1A	940	100	.39	.35	.29
1872265	OP505A	OPT	1	Infrared silicon phototransistor	T1	0.125/3.2	0.20	0.50	0.50	0.03	30VBRCE @ 100µA	850	100	.79	.65	.59
1950649	BPV22NF(L)	OPT	3	High speed photo diode	T1 ¼	0.195/5	0.24	1.00	1.00	—	1.0 @ 50mA	940	215	.65	.59	.49
1623349	SFH484-2	SYL	1	Infrared emitter diode	T1 ¼	0.197/5	0.30	0.50	1.14	1.07	1.5 @ 100mA	880	25	.79	.69	.59
372737	UT1883-81-880	JVP	1	Infrared emitter diode (GaAs) water clear	T1 ¼	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.35	.29	.25
372745	UT1885-81-880	JVP	1	Infrared emitter diode (GaAs) blue clear	T1 ¼	0.200/5	0.30	0.88	0.94	0.04	1.5 @ 50mA	880	16	.39	.35	.29
1872151	OP290A	OPT	1	Infrared emitter diode	T1 ¼	0.195/5	0.30	0.75	1.00	0.04	4.0 @ 1.5A	890	333	1.09	.89	.69
106526	LVIR3333	LIG	1	Infrared emitter diode (GaAs)	T1 ¼	0.200/5	0.34	0.78	0.84	0.04	1.2 @ 20mA	940	8	.29	.19	.15
372762	UT1883-81-940	JVP	1	Infrared emitter diode (GaAs)	T1 ¼	0.200/5	0.30	0.88	0.94	0.04	1.3 @ 50mA	940	16	.35	.29	.19
1950622	TSHA5502	VSH	1	Infrared emitter diode (GaAlAs)	T1 ¼	0.200/5	0.30	0.97	1.04	0.04	1.5 @ 1mA	870	210	.59	.49	.39
373001	UT1893-91-0125	JVP	1	Infrared phototransistor	T1 ¼	0.200/5	0.34	0.88	0.94	0.04	30 @ 0.1A	870	20	.29	.25	.19
112169	UT1893-82-0125-R	LED	1	Infrared phototransistor	T1 ¼	0.200/5	0.31	1.05	1.10	0.04	30 @ 0.1A	940	20	.35	.29	.25
1872441	OP999	OPT	1	PIN silicon photodiode	T1 ¼	0.205/5.3	0.31	0.69	0.75	0.04	1.2 @ 1mA	200	100	.99	.89	.79
120221	BPW77NA	◆	2	NPN phototransistor	TO-18	0.18/4.69	0.24	0.19	0.52	0.01	70VCEO @ 50mA	850	250	1.95	1.75	1.49

## 7-Segment LED Displays

### Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W

\* Web Code: PBW



Single Digit RHDP  
(1955677)



Single Digit LHDP/RHDP  
(24732)



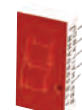
Single Digit LHDP/RHDP  
(24741)



Single Digit LHDP  
(2082265)



Single Digit LHDP/RHDP  
(320469)



Single Digit RHDP  
(2005411)

### Single Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vt @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
1955677	Lite-On	LTS-2801AG	0.28"	Green	CA	10	2.0 @ 10	0.1 @ 5	565	RHDP	\$.89	\$.79	\$.65
24732	MCD	GNS-3011BH-11	0.30"	Red	CA	10	1.9 @ 20	0.3 @ 20	697	LHDP/RHDP	.89	.79	.65
24783	MCD	GNS-3011CH-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.89	.79	.65
24782	Ligitek	LSD3211-11	0.30"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24740	Ligitek	LSD3221-11	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.99	.89	.75
24741	MCD	GNS3011FH-11-13	0.30"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP/RHDP	.89	.79	.65
334984	ValuePro	UA3051-12	0.30"	Red	CA	11	2.1 @ 20	0.8 @ 10	700	RHDP	.89	.79	.65
334800	ValuePro	UC3051-11	0.30"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.85	.75	.65
334802	ValuePro	UC3041R-11	0.30"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.75	.65
1548027	Avago	5082-7611	0.30"	Hi-eff Red	CA	11	2.1 @ 20	0.8 @ 5	635	RHDP	2.75	2.49	2.25
789953	Lite-On	LSHD-7501	0.30"	AllnGap Red	CA	10	2.1 @ 20	12 @ 10	632	RHDP	.85	.75	.59
2082265	ValuePro	MAN3620A	0.30"	Orange	CA	11	2.5 @ 20	3.3 @ 10	630	LHDP	.79	.69	.55
335011	ValuePro	UA3041-12	0.30"	Orange	CA	11	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.79	.65
320469	ValuePro	UA3031-16-EWRN	0.30"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	.89	.79	.65
2079226	Ligitek	LSD3352-20/RP4	0.32"	Green	CC	14	2.1 @ 20	3.5 @ 10	565	RHDP	1.09	.95	.79
2075698	Ligitek	LSD3362-20/RP4	0.32"	Green	CA	14	2.1 @ 20	3.5 @ 10	565	RHDP	1.09	.95	.79
1955714	Lite-On	LTS-367R	0.36"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
1955722	Lite-On	LTS-4801R	0.40"	Red	CA	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
1955731	Lite-On	LTS-4301R	0.40"	Red	CC	10	1.7 @ 20	0.5 @ 10	655	RHDP	.89	.79	.65
334844	Ledtech	UC4041R-11	0.40"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.89	.79	.65
2005411	Lite-On	LTS-4980AHR	0.40"	Hi-eff Red	CC	14	2.1 @ 20	2.2 @ 10	635	RHDP	.69	.59	.49
335038	Ledtech	UA4021-11	0.40"	Green	CA	10	2.1 @ 20	2.9 @ 10	567	RHDP	.99	.89	.75
1996081	Lite-On	LTS-4510AG	0.40"	Green	CA	14	2.1 @ 20	2.2 @ 10	565	RHDP	1.09	.99	.89
2075719	Ligitek	LSD4012-20A	0.40"	Green	CC	14	2.1 @ 20	2.5 @ 10	565	RHDP	1.09	.99	.89
2075727	Ligitek	LSD4015BKS-20A	0.40"	Blue	CC	14	3.5 @ 20	12.8 @ 10	460	RHDP	2.59	2.35	2.09
17209	MCD	GNS-5011BH-11	0.50"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
17187	Ligitek	LSD5051-11	0.50"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	1.09	.99	.89
1955749	Lite-On	LTS-5301AR	0.56"	Red	CA	10	1.7 @ 20	0.6 @ 10	655	RHDP	1.09	.99	.89
1955757	Lite-On	LTS-6780R	0.56"	Red	CC	10	1.7 @ 20	0.6 @ 10	655	RHDP	1.09	.99	.89
335090	ValuePro	UA5651-11	0.56"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	1.09	.99	.89
2005438	Lite-On	LTS-5503	0.56"	AllnGap Red	CC	10	2.1 @ 20	1.7 @ 10	632	RHDP	1.09	.99	.89
1955765	Lite-On	LTS-6760P	0.56"	Bright Red	CA	10	2.1 @ 20	0.95 @ 10	697	RHDP	1.19	1.09	.99
334896	ValuePro	UC5641R-11	0.56"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

Single Digit 7-Segment Numeric LED Displays continued on next page

\* JVP = Jameco ValuePro | LED = Ledtech | LIG = Ligitek | OPT = Optek | SYL = Sylvania | VSH = Vishay | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## 7 & 14-Segment LED Displays



Single Digit RHDP  
(1955773)



Single Digit LHDP/RHDP  
(1955811)



Single Digit RHDP (14-seg.)  
(2076703)



2-Digit RHDP  
(1955845)



2-Digit RHDP  
(1955853)



2-Digit RHDP  
(2005358)

### Single Digit 7-Segment Numeric LED Displays (Continued)

\* Web Code: PBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
335101	ValuePro	UA5641R-11	0.56"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	\$ .99	\$ .89	\$ .79
1584335	Avago	HDSF-5501-GH000	0.56"	Hi-eff Red	CA	10	2.1 @ 20	2.8 @ 10	635	RHDP	2.49	2.25	1.95
104213	Ligitek	LSD5124-10	0.56"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.99	.89	.79
335312	ValuePro	UA5641-11-EWRN	0.56"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
334880	ValuePro	UC5641-11-EWRNR	0.56"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.99	.89	.79
1955773	Lite-On	LTS-6880E	0.56"	Orange	CC	10	2.1 @ 20	2.4 @ 10	630	RHDP	.99	.89	.79
2005446	Lite-On	LTS-5701AY	0.56"	Yellow	CA	10	2.1 @ 20	2.4 @ 10	580	RHDP	.99	.89	.79
1955790	Lite-On	LTS-6860Y	0.56"	Yellow	CA	10	2.1 @ 20	2.4 @ 10	585	RHDP	.99	.89	.79
335127	ValuePro	UA5621-11	0.56"	Green	CA	10	2.1 @ 20	2.9 @ 10	562	RHDP	.99	.89	.79
334862	Ledtech	UC5621-11	0.56"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.99	.89	.79
2075735	Ligitek	LSD5122-20/A	0.56"	Green	CA	10	2.1 @ 20	4.5 @ 10	565	RHDP	.99	.89	.79
2075751	Ligitek	LSD5112-20/A	0.56"	Green	CC	10	2.1 @ 20	4.5 @ 10	565	RHDP	.99	.89	.79
2075760	Ligitek	LSD512SBKS-20	0.56"	Blue	CA	10	3.5 @ 20	12.8 @ 10	460	RHDP	2.49	2.25	1.95
18753	Ligitek	LSD8151-10	0.80"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.25	1.15	.99
1955829	Lite-On	LTS-3403LWC	0.80"	AlGaAs Red	CA	18	1.8 @ 20	3.75 @ 5	660	LHDP/RHDP	1.19	1.09	.95
1955811	Lite-On	LTS-3401LC	0.80"	AlGaAs Red	CA	18	1.8 @ 20	8.0 @ 10	660	LHDP/RHDP	1.25	1.15	.99
18737	Ligitek	LSD816-11	0.80"	Orange Red	CA	13	1.6 @ 20	1.0 @ 20	655	RHDP	1.25	1.15	.99
2005462	Lite-On	LTS-3401LE	0.80"	Yellow	CA	18	2.1 @ 20	2.4 @ 10	630	LHDP/RHDP	1.39	1.25	1.09
1955837	Lite-On	LTS-3403LY	0.80"	Yellow	CC	18	2.1 @ 20	2.4 @ 10	585	LHDP/RHDP	1.39	1.25	1.09
2005489	Lite-On	LTS-3401LG	0.80"	Green	CA	18	2.1 @ 20	2.4 @ 10	565	LHDP/RHDP	1.39	1.25	1.09
176559	Re Fac	C8021-1	0.80"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	1.39	1.25	1.09
97172	Ligitek	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.95	1.75	1.49
308161	Ledtech	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP	1.95	1.75	1.49
97199	Ligitek	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
97201	Ligitek	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.59
105591	Ligitek	LSD40054-20	4.00"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	8.95	7.95	7.15
202500	Ligitek	LSD40064-20	4.00"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	8.95	7.95	7.15

### Single Digit 14-Segment Alphanumeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2076703	Ligitek	LSD3E62-20/A	0.39"	Green	CA	16	2.1 @ 20	3.05 @ 10	565	RHDP	\$1.69	\$1.39	\$1.19
2076691	Ligitek	LSD3E6SBKS-20/A	0.39"	Blue	CA	16	3.5 @ 20	7.2 @ 10	475	RHDP	3.95	3.59	3.19

### 2-Digit 7-Segment Numeric LED Displays

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
1955781	Lite-On	LTD-2701WC	0.28"	Red	CC	10	1.8 @ 20	3.1 @ 5	660	RHDP	\$1.49	\$1.35	\$1.15
1955845	Lite-On	LTD-383E-R2	0.30"	Red Orange	CA	16	2.0 @ 20	1.6 @ 10	630	RHDP	1.49	1.35	1.15
1955853	Lite-On	LTD-482P-YQ	0.40"	Bright Red	CA	16	2.1 @ 20	0.8 @ 10	697	RHDP	1.49	1.35	1.15
2075786	Ligitek	LDD4062-20/A	0.40"	Green	CA	16	2.1 @ 20	3.05 @ 10	565	RHDP	1.49	1.35	1.15
1955861	Lite-On	LTD-432GC	0.40"	Green	CC	16	2.1 @ 20	1.1 @ 10	565	No DP	1.49	1.35	1.15
2005340	Lite-On	LTD-4608B	0.40"	Blue	CA	10	3.8 @ 20	3.6 @ 10	428	RHDP	4.95	4.49	3.95
200379	Rohm	LB602VAGI	0.56"	Red	CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.49	1.25	.99
24715	Ligitek	LDD5121-20	0.56"	Red	CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
24723	Ligitek	LDD5111-11	0.56"	Red	CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.59	1.39	1.19
334933	ValuePro	UC5652-11	0.56"	Red	CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.59	1.39	1.19
24694	Ligitek	LDD5124	0.56"	Orange Red	CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.39	1.19
24707	Ligitek	LDD5114-20	0.56"	Orange Red	CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.39	1.19
790031	Lite-On	LTD-6940HR	0.56"	Hi-eff Red	CC	18	2.0 @ 20	2.4 @ 10	623	RHDP	1.69	1.49	1.25
334976	ValuePro	UA5642R-11	0.56"	Hi-eff Red	CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.59	1.29	1.19
200539	Arctic	ELD556YWA	0.56"	Yellow	CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.49	1.25	.99
790022	Lite-On	LTD-6410AG	0.56"	Green	CA	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.59	1.39	1.19
2005358	Lite-On	LTD-5623BG	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	565	RHDP	1.59	1.39	1.19
2005366	Lite-On	LTD-6440G	0.56"	Green	CC	18	2.1 @ 20	2.4 @ 10	570	RHDP	1.59	1.39	1.19
2075794	Ligitek	LDD512SBKS-20/A	0.56"	Blue	CA	18	3.5 @ 20	58 @ 10	475	RHDP	4.95	4.49	3.95

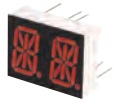
\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# 7 & 14-Segment LED Displays, Bar Graph Arrays & Light Bars

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## 7 & 14-Segment LED Displays (Continued)



2-Digit RHDP  
(1955933)



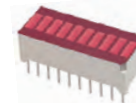
2-Digit RHDP  
(2075807)



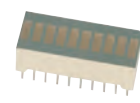
3-Digit RHDP  
(1956493)



4-Digit RHDP  
(1956573)



10-Bar Graph  
(697477)



10-Bar Graph  
(334511)

### 2-Digit 14-Segment Alphanumeric LED Displays

★ Web Code: PBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing		
											1	10	100
2005382	Lite-On	LTP-4323P	0.40"	Bright Red	CC	20	2.1 @ 20	0.75 @ 10	697	RHDP	\$2.25	\$1.95	\$1.75
2005391	Lite-On	LTP-4323JD	0.40"	AllnGap Hyper Red	CC	20	2.1 @ 20	0.65 @ 10	650	RHDP	2.95	2.49	2.19
1955870	Lite-On	LTP-4323G	0.40"	Green	CC	20	2.1 @ 20	2.0 @ 10	569	RHDP	2.95	2.49	2.19
1955896	Lite-On	LTP-3786S-03	0.54"	AlGaAs Red	CA	18	1.8 @ 20	4.0 @ 10	660	RHDP	2.95	2.49	2.19
1955909	Lite-On	LTP-3785E-01	0.54"	Red Orange	CA	18	2.0 @ 20	2.0 @ 10	630	RHDP	2.95	2.49	2.19
1955933	Lite-On	LTP-8647AP	0.54"	Bright Red	††	18	12 @ 8.5	0.9 @ 0.4	697	RHDP	3.95	3.39	2.89
335222	ValuePro	UA5422-11 EWRS	0.54"	Green	CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	2.49	2.25	1.95
1955917	Lite-On	LTP-3785G-01	0.54"	Green	CA	18	2.1 @ 20	2.0 @ 10	565	RHDP	2.95	2.49	2.19
2075807	Ligitek	LDD525SBKS-20/A	0.56"	Blue	CC	18	3.5 @ 20	10.5 @ 10	460	RHDP	8.95	7.95	6.95

### 3-Digit 7-Segment Numeric LED Displays

335055	ValuePro	UN4043-13 EWRS	0.40"	Orange	CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	\$2.49	\$2.25	\$1.95
1956493	Lite-On	LTC561R	0.56"	Red	CA	12	1.7 @ 20	0.6 @ 10	665	RHDP	2.49	2.25	1.95
308224	Ledtech	LM5643R-11RRRN	0.56"	Orange	CC	11	2.1 @ 20	3.3 @ 10	635	RHDP	2.49	2.25	1.95
225963	ValuePro	KW3-562A2B	0.56"	Green	CA	28	2.2 @ 20	15 @ 20	568	RHDP	2.49	2.25	1.95

### 4-Digit 7-Segment Numeric LED Displays

2006810	Ligitek	LFD2121-20/A-PF	0.28"	Red	CA	12	2.1 @ 20	0.8 @ 10	697	RHDP	\$2.95	\$2.49	\$2.19
1956549	Lite-On	LTC-2623G	0.28"	Green	CA	16	2.1 @ 20	2.0 @ 10	575	RHDP	2.95	2.49	2.19
2006828	Ligitek	LFD4161-20/A-PF	0.40"	Red	CA	16	2.1 @ 20	0.8 @ 10	697	RHDP	2.95	2.49	2.19
1956565	Lite-On	LTC-4627G	0.40"	Green	CA	16	2.1 @ 20	2.2 @ 10	575	RHDP	2.95	2.49	2.19
1956506	Lite-On	LTC-5837E	0.52"	Red Orange	CA	40	2.0 @ 20	2.2 @ 10	630	RHDP	2.95	2.49	2.19
2006836	Ligitek	LFD5221-20/A-PF	0.56"	Red	CA	12	2.1 @ 20	1.0 @ 10	697	RHDP	2.95	2.49	2.19
335185	ValuePro	UM5644R-11-RRRS	0.56"	Orange	CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.95	2.49	2.19
2005711	Lite-On	LTC-5653G-01	0.56"	Green	CA	12	2.1 @ 20	2.4 @ 10	565	RHDP	2.95	2.49	2.19
1956573	Lite-On	LTC-5848G	0.56"	Green	CA	36	2.1 @ 20	2.4 @ 10	565	RHDP##	3.25	2.95	2.49
335194	ValuePro	UM5624-11-EWRS	0.56"	Green	CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	3.95	3.59	3.19
11360	Lite-On	LTC-5851Y	0.56"	Yellow	CA	36	2.1 @ 20	2.1 @ 10	585	RHDP##	2.95	2.49	2.19

\* CA-Common Anode/CC-Common Cathode †† Built in M5450 MOS IC driver # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point ## 1st & 2nd digits only

## LED Bar Graph Arrays (10 Elements)

★ Web Code: LBW

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Number of Elements	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
1954957	Lite-On	LTA-1000P	0.20"	Bright Red	10	20	2.1 @ 20	0.7 @ 10	697	\$1.05	\$0.85	\$0.69
697477	Lite-On	LTA-1000HR	0.20"	Hi-eff. Red	10	20	2.0 @ 20	2.0 @ 10	635	1.05	.85	.69
334529	ValuePro	UL10000-HR-RRAK	0.20"	Red	10	20	2.1 @ 20	1.6 @ 10	635	1.19	.99	.79
334537	ValuePro	UL10000-Y-EWAK	0.20"	Yellow	10	20	2.1 @ 20	1.1 @ 10	585	1.19	.99	.79
697469	Lite-On	LTA-1000G	0.20"	Green	10	20	2.1 @ 20	2.0 @ 10	565	1.19	.99	.79
334511	ValuePro	UL10000-E-EWAK	0.20"	Green	10	20	2.1 @ 20	1.4 @ 10	567	1.19	.99	.79
1551402	Avago	HDSP-4832	0.20"	Hi-eff. Red, Yellow, Green	10	20	2.1/2.2 @ 20; 2.1 @ 10	3.5/1.9/1.9 @ 10	635/583/566	6.95	6.25	5.59



Fig. 1



Fig. 2



Fig. 3



Fig. 4

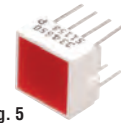


Fig. 5

★ Web Code: LTB

Part No.	Manufacturer	Product No.	Illuminated Color	Light Emitting Area	Package Fig.	Pins/Leads	Typical Forward Volt	Typical Luminosity	Wavelength nm	Pricing		
										1	10	100
1954965	Lite-On	LTL-2600HR	Hi-eff Red	.350" x .150" (2)	2	8	2.1 @ 20	4200	635	\$1.09	\$0.89	\$0.75
1954973	Lite-On	LTL-2800G	Green	.350" x .150" (2)	2	8	2.1 @ 20	4200	565	1.09	.89	.75
790188	Lite-On	LTL-2620HR	Hi-eff Red	.350" x .150" (4)	3	16	2.1 @ 20	4200	635	1.09	.89	.75
1954990	Lite-On	LTL-2820G	Green	.350" x .150" (4)	3	16	2.1 @ 20	4200	565	1.25	.99	.89
1955001	Lite-On	LTL-2720Y	Yellow	.350" x .150" (4)	3	16	2.1 @ 20	4200	585	1.09	.89	.75
334650	ValuePro	UB3541R-11-NRAK	Orange	.350" x .350" (1)	5	16	2.1 @ 20	7800	635	1.25	.99	.89
334668	ValuePro	UB3531R-11-NYAK	Yellow	.350" x .350" (1)	5	16	2.1 @ 20	5500	585	1.49	1.25	1.09
334676	ValuePro	UB3521R-11-NGAK	Green	.350" x .350" (1)	5	16	2.1 @ 20	6800	567	1.25	.99	.89
2005315	Lite-On	LTL-2350HR	Hi-eff Red	.750" x .150" (1)	1	8	2.1 @ 20	800	635	1.09	.89	.79
790153	Lite-On	LTL-2450Y	Yellow	.750" x .150" (1)	1	8	2.1 @ 20	800	585	1.09	.89	.79
2005323	Lite-On	LTL-2685HR	Hi-eff Red	.350" x .750" (1)	4	16	2.1 @ 20	1600	635	1.49	1.25	1.09
2005331	Lite-On	LTL-2885G	Green	.350" x .750" (1)	4	16	2.1 @ 20	1600	565	1.49	1.25	1.09

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## LED Dot Matrix Displays (5x7, 5x8 & 8x8 Arrays)

5 x 7  
Dot Matrix



5 x 8  
Dot Matrix



8 x 8  
Dot Matrix



★ Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	Array Polarity *	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing		
										1	10	100
218843	Various	CSM57041T-11	0.7"	Red	5 x 7 CC/AR	12	1.8 @ 20	8.0 @ 20	660	\$2.49	\$1.95	\$1.75
118906	Lite-On	LTP747R	0.7"	Hi-eff. Red	5 x 7 AC/CR	12	2.0 @ 20	2.0 @ 80	655	2.95	2.25	1.89
2005420	Lite-On	LTP-747C	0.7"	AlGaAs Red	5 x 7 AC/CR	12	1.8 @ 20	5.8 @ 80	660	2.49	1.95	1.75
2005471	Lite-On	LTP-757KR	0.7"	AlInGaP Super Red	5 x 7 CC/AR	12	2.0 @ 20	3.4 @ 32	639	2.95	2.25	1.89
2005454	Lite-On	LTP-747E	0.7"	Orange	5 x 7 AC/CR	12	2.0 @ 20	2.0 @ 80	630	2.25	1.75	1.49
2005497	Lite-On	LTP-757G	0.7"	Green	5 x 7 CC/AR	12	2.1 @ 20	2.0 @ 80	565	1.95	1.75	1.25
1955061	Lite-On	LTP-1457AHR	1.2"	Hi-eff. Red	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	635	3.49	2.95	2.25
1955079	Lite-On	LTP-1557AHR	1.2"	Hi-eff. Red	5 x 7 CC/AR	14	2.1 @ 20	4.0 @ 80	565/630	3.49	2.95	2.49
335281	ValuePro	UJ1141-21-EWRN	1.2"	Orange	5 x 7 CC/AR	14	2.1 @ 20	4.6 @ 10	635	3.49	2.95	2.25
2005518	Lite-On	LTP-1557AKA	1.2"	AlInGaP Red Orange	5 x 7 CC/AR	14	2.05 @ 20	3.8 @ 80	621	2.95	2.49	1.95
1955087	Lite-On	LTP-1257AA-01	1.2"	Green/Red Orange	5 x 7 AC/CR	20	2.1/2.0 @ 20	4.0 @ 80	565/630	3.49	2.95	2.49
1955095	Lite-On	LTP-1057AE	1.24"	Red Orange	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	630	3.95	3.25	2.25
2005745	Lite-On	LTP-1057AGNB	1.24"	Green	5 x 7 AC/CR	14	2.1 @ 20	4.0 @ 80	565	2.95	2.49	1.95
1955108	Lite-On	LTP-1057AHR	1.54"	Hi-eff. Red	5 x 7 AC/CR	14	2.0 @ 20	4.0 @ 80	635	3.95	3.25	2.59
308144	Ledtech	LT5763-M1EWRN	1.54"	Red/Green	5 x 7 AC/CR	20	1.7/2.1 @ 20	10.8/20 @ 10	660/567	3.95	3.25	2.25
1955132	Lite-On	LTP-2157AHR-RD	2.0"	Hi-eff. Red	5 x 7 CC/AR	14	2.0 @ 20	4.8 @ 80	635	3.95	3.35	2.89
2005753	Lite-On	LTP-2057AE	2.0"	Orange	5 x 7 AC/CR	14	2.0 @ 20	4.8 @ 80	630	3.95	3.35	2.89
1955116	Lite-On	LTP-2157AE	2.0"	Orange	5 x 7 CC/AR	14	2.0 @ 20	4.8 @ 80	630	3.95	3.35	2.49
335290	ValuePro	UJ2041-21 EWRN	2.0"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	3.95	3.35	2.89
206560	Lite-On	LTP-2157AG	2.0"	Green	5 x 7 CC/AR	14	2.1 @ 20	4.8 @ 80	565	3.95	3.35	2.49
2077351	Lite-On	LTP-2657AA	2.0"	Green/Red Orange	5 x 7 AC/CR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.35	2.89
1955159	Lite-On	LTP-2757AA	2.0"	Green/Red Orange	5 x 7 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.35	2.49
2005761	Lite-On	LTP-3057AC	3.0"	AlGaAs Red	5 x 7 AC/CR	14	3.6 @ 20	20 @ 80	660	4.49	3.95	3.39
1955167	Lite-On	LTP-4157AE	4.0"	Orange	5 x 7 CC/AR	14	4.0 @ 20	96 @ 80	630	4.95	4.19	3.59
1955175	Lite-On	LTP-4157AG	4.0"	Green	5 x 7 CC/AR	14	4.2 @ 20	96 @ 80	565	4.95	4.19	3.49
183265	Ligitek	LMD5821ASR-20	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	10.5 @ 10	660	3.95	3.59	3.19
1955183	Lite-On	LTP-2158AHR	2.3"	Hi-eff. Red	5 x 8 CC/AR	14	2.1 @ 20	4.0 @ 48	635	2.95	2.49	1.95
1955191	Lite-On	LTP-2158AY	2.3"	Yellow	5 x 8 CC/AR	14	2.1 @ 20	4.8 @ 80	585	3.95	3.59	2.75
1955204	Lite-On	LTP-2458AA-NB	2.3"	Green/Red Orange	5 x 8 AC/CR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.59	2.75
1955212	Lite-On	LTP-2558AA	2.3"	Green/Red Orange	5 x 8 CC/AR	28	2.1/2.0 @ 20	4.8 @ 80	565/630	3.95	3.59	2.75
1955221	Marktech	MTAN6385-AHRG	0.85"	Hi-eff. Red	8 x 8 AC/CR	24	2.1 @ 20	7.4 @ 20	635	3.95	3.59	2.75

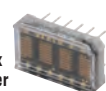
\* AC-Anode Column / AR-Anode Row / CC-Cathode Column / CR-Cathode Row

## LED Dot Matrix with Decoder Driver (4x7 & 5x7 Arrays) Alphanumeric & Hexadecimal

• Supply voltage: 5V



4x7 Hex Character



★ Web Code: HAV

Part No.	Manufacturer	Product No.	Character Height	Illuminated Color	No. of Characters	Array Polarity	Pins/ Leads	Typical mcd	Wavelength nm	Pricing		
										1	10	100
1548844	Avago	HCMS-2903	0.15"	Green	4 (1x4)	5 x 7 Alpha	12	0.114	568	\$19.95	\$18.95	\$17.95
1551269	Avago	HDSP-2532	0.18"	Hi-efficiency Red	8 (1x8)	5 x 7 Alpha	30	7.5	635	32.95	31.95	29.95
1551251	Avago	HDSP-2531	0.18"	Yellow	8 (1x8)	5 x 7 Alpha	30	7.5	583	32.95	31.95	29.95
1584301	Avago	HDSP-2111	0.20"	Yellow	8 (1x8)	5 x 7 Alpha	28	7.5	583	32.95	31.95	29.95
1551120	Avago	HDLG-2416	0.20"	Green	4 (1x4)	5 x 7 Alpha	18	5.6	568	19.95	18.95	17.95
32951	Texas Instruments	TIL311	0.27"	Red	1	4 x 7 Hex	14	0.1	660	19.95	17.95	15.95
1584327	Avago	HDSP-2503	0.27"	Hi-efficiency Green	8 (1x8)	5 x 7 Alpha	28	7.5	568	34.95	33.95	31.95
1551189	Avago	HDSP-0762	0.29"	Hi-efficiency Red	1	4 x 7 Hex	8	0.14	635	34.95	33.95	31.95

JAMECO ValuePro

## Multi-Chip, Bayonet and Cluster Based LED Replacement Lamps

★ Web Code: KBZ

### 585 Series Non-Polarized

- Low current draw – 90% less energy than incandescent
- Mounts directly into industry standard socket

- No heat generated
- Long life – up to 100k hours

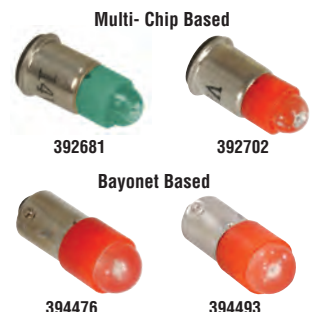
JAMECO  
EXCLUSIVE

### Multi-Chip Based LED T1 - Midget Flange

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392681	585-4123	Green	14	14	550	630	\$2.95	\$2.59	\$1.95
392690	585-4125	Yellow	14	20	530	630	2.95	2.59	1.95
392702	585-1225	Red	28	4.5	350	625	2.95	2.59	1.95

### Bayonet Based LED T3

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
394476	585-4123	Red	14	20	550	630	\$2.95	\$2.59	\$1.95
394493	585-4125	Red	28	14	350	630	2.95	2.59	1.95



Cluster-Based LED continued on next page

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Replacement Lamps & Parallel LCD Displays

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

## Multi-Chip, Bayonet and Cluster Based LED Replacement Lamps (Continued)

\* Web Code: KBZ

### 585 Series Non-Polarized

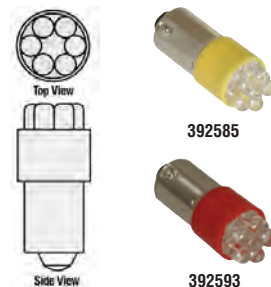
- Low current draw – 90% less energy than incandescent
- Mounts directly into industry standard socket
- No heat generated
- Long life – up to 100k hours

JAMECO  
EXCLUSIVE

### Cluster-Based LED T3 - Miniature Bayonet (BA9s)

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Product No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392552	585-5223	Red	14	20	7000	630	\$4.95	\$4.49	\$3.95
392585	585-5523	Yellow	14	20	7000	588	4.95	4.49	3.95
392593	585-5225	Red	28	15	6500	630	4.95	4.49	3.95
392607	585-5325	Green	28	15	6000	525	4.95	4.49	3.95
392622	585-5525	Yellow	28	15	6000	588	4.95	4.49	3.95
392632	585-5256	Red	120VAC	5.5	6500	625	4.95	4.49	3.95
392649	585-5356	Green	120VAC	5.5	7000	525	4.95	4.49	3.95

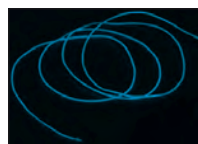


### velleman Electroluminescence Wire

Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap this fluorescent wire around any object such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant color.

- Powered by 2 AA batteries • Length: 4.5'

Part No.	Mfr. Part No.	Color	1	10	25
263484	NWRB15	Blue	\$22.95	\$19.95	\$17.95
263492	NWRR15	Red	22.95	19.95	17.95



\* Web Code: ELW



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## Parallel LCD Displays

- For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).

\* Web Code: GCG

90-day Jameco Warranty



658890



210761



658902



1946050



320101



658953

Part No.	Manufacturer	Mfr. Part No.	Characters x Lines	Character Font	Input Data	Input Voltage	Letters-Backlight	Notes†	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
											1	10	25
137373	Varitronix	MDLS16166D	16 x 1	5 x 8	8-bit	5.0V @ 0.6mA	Black-None	2, 3	3.1 x 1.4 x 0.4	2.5 x 0.5	\$8.95	\$7.95	\$6.95
1939571	Hitachi	LM071L	16 x 2	5 x 7	8-bit	5.0V @ 1.0mA	Black-None	—	3.1 x 1.4 x 0.4	2.5 x 0.5	8.95	7.95	6.95
618003	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	Black-None	—	3.2 x 1.4 x 0.3	2.5 x 0.5	9.95	8.95	7.95
658988	Hantronix	HDM716216L-7-800	16 x 2	5 x 7	8-bit	5.0V @ 2.0mA	Black-Yellow	3	4.8 x 1.7 x 0.6	3.9 x 0.9	11.95	10.95	8.95
658890	Hantronix	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	3.3 x 1.7 x 0.4	2.4 x 0.6	13.95	12.49	11.25
658881	Hantronix	HDM716216H-4-HOAF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	4.8 x 1.7 x 0.4	3.9 x 0.9	14.95	13.49	11.95
171716	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Black-Yellow/Green	2, 3	3.4 x 1.2 x 0.5	2.5 x 0.7	19.95	17.95	15.95
1954666	Tinsharp	TC1602Y-G	16 x 2	5 x 8	8-bit	5.0V @ 0.55mA	Black-Yellow/Green	—	3.1 x 1.4 x 0.4	2.5 x 0.4	9.95	8.95	7.95
1946068	Goldentek	C-1602A-1YN	16 x 2	5 x 8	8-bit	5.0V @ 1.0mA	Black-Yellow/Green	—	2.8 x 1.4 x 0.4	2.6 x 0.6	9.95	8.95	7.95
1585979	Tinsharp	TC1602B-B	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	Black-Blue	—	3.1 x 1.4 x 0.4	2.5 x 0.4	17.95	15.95	13.95
1954674	Tinsharp	TC1602B-W	16 x 2	5 x 8	8-bit	5.0V @ 1.3mA	White-Black	—	3.1 x 1.4 x 0.4	2.5 x 0.4	14.95	13.49	11.95
365982	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Black-Yellow/Green	—	3.3 x 1.2 x 0.5	2.4 x 0.63	13.95	12.49	10.95
2081166	Optrex	DMC16249	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Black-Grey -None	—	3.1 x 1.4 x 0.4	2.5 x 0.5	9.95	8.95	7.95
210761	Various	UC-16401 (Samsung)	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	Black-None	1, 3	3.4 x 2.4 x 0.3	2.4 x 1.0	24.95	22.49	19.95
206615	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V @ 3.0mA	Black-None	4	7.2 x 1.6 x 0.4	6.5 x 1.3	9.95	8.95	7.95
658902	Hantronix	HDM20216H-3-001P	20 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	4	4.6 x 1.5 x 0.4	3.3 x 0.7	12.95	11.49	9.95
171724	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Black-Yellow/Green	2, 3	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
1946050	Goldentek	GM-C2004A	20 x 4	5 x 8	8-bit	5.0V @ 1.5mA	Blue-Grey	—	3.8 x 2.7 x 0.3	3.0 x 1.0	9.95	8.95	7.95
658911	Hantronix	HDM24216L-2-E30P	24 x 2	5 x 7	8-bit	5.0V @ 1.4mA	Black-Yellow/Green	3	4.6 x 1.4 x 0.6	2.4 x 0.6	16.95	14.95	12.95
320101	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Black-None	3	4.6 x 1.4 x 0.4	3.7 x 0.7	8.95	7.95	7.25
320039	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Black-None	3	7.2 x 1.2 x 0.3	6.0 x 0.6	11.95	10.95	9.95
658831	Hantronix	HDM402162H-4-S90P	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	7.2 x 1.3 x 0.4	6.1 x 0.6	9.95	8.95	7.95
658929	Hantronix	HDM40216H-4-S9RP	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	Black-None	3	7.2 x 1.3 x 0.4	6.1 x 0.6	9.95	8.95	7.95
658937	Hantronix	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Black-Yellow/Green	3	7.2 x 1.3 x 0.6	6.1 x 0.6	20.95	18.95	16.95
652332	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	Black-None	—	7.5 x 2.1 x 0.4	5.5 x 0.9	22.95	19.95	16.95
658953	Hantronix	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Black-None	4	3.0 x 2.1 x 0.4	2.4 x 1.3	19.95	17.95	15.95

†1. Control LSI HD44780 & column driver MSMS259 or equivalents; 2. Controller KS0066U or equivalent; 3. Recommend power supply P/N 164101, pg 122; 4. Dot Graphic LCD display

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

# Serial LCD Displays & Incandescent Lamps

Serial LCD Displays



Scott Edwards Electronics, Inc.

• For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com). • One-year warranty

\* Web Code: QAW



Part No.	Manufacturer	Mfr. Part No.	Characters x Lines	Serial Input (bps)	Input Voltage	Letters-Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
										1	10	25
150990	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V @ 5mA	Black-Yellow/Green	1,2,5	3.2 x 2.0 x 0.5	2.8 x 1.0	\$49.95	\$44.95	\$41.95
2081975	Crystal Fonz	CFA632-NFA-KS	16 x 2	2400 - 19,200	5.0V @ 9mA	Black-None	5	4.3 x 1.7 x 0.6	3.3 x 0.9	29.95	26.95	23.95
133129	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V-5.5V @ 3mA	Black-None	1,2,11	3.1 x 1.4 x 0.7	2.8 x 1.0	55.95	49.95	44.95
174166	Matrix Orbital	LK162-12	16 x 2	1200 - 19,200	5.0V @ 9mA	Black-Yellow/Green	1,3,4,6	3.2 x 1.5 x 0.8	2.5 x 0.7	59.95	56.95	53.95
281332	Matrix Orbital	LK162-12-WB	16 x 2	1200 - 19,200	5.0V @ 9mA	White-Blue	1,7,10,14	3.2 x 1.4 x 1.1	2.5 x 0.7	48.95	—	—
693783	Matrix Orbital	LK162-12-1Y	16 x 2	1200 - 19,200	5.0V @ 9mA	Yellow-None	1,7,10,13	3.2 x 1.4 x 1.1	2.5 x 0.7	44.95	—	—
174174	Matrix Orbital	LK202-25	20 x 2	1200 - 19,200	5.0V @ 9mA	Black-Yellow/Green	1,7,10	4.6 x 1.5 x 1.1	3.1 x 0.7	49.95	—	—
693986	Matrix Orbital	LK202-25-1Y	20 x 2	1200 - 19,200	5.0V @ 9mA	Yellow/Green-Black	1,7,10,13	4.6 x 1.5 x 1.1	3.1 x 0.7	49.95	—	—
693994	Matrix Orbital	LK202-25-R	20 x 2	1200 - 19,200	5.0V @ 9mA	Red-Black	1,7,10,15	4.6 x 1.5 x 1.1	3.1 x 0.7	49.95	—	—
281359	Matrix Orbital	VK202-25	20 x 2 w/ keypad	1200 - 19,200	5.0V @ 130mA	Blue-Black	1,7,10	4.6 x 1.5 x 0.9	2.8 x 0.5	74.95	—	—
158166	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	4.8V-5.5V @ 15mA	Yellow-None	1,2,5	3.1 x 1.9 x 0.8	2.6 x 1.1	119.95	109.95	99.95
150957	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V @ 10mA	Black-Yellow/Green	1,3,4,6	3.9 x 2.4 x 0.7	3.0 x 1.0	69.95	66.49	62.95
157323	Matrix Orbital	LK204-25	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Black-Yellow/Green	1,3,4,6	3.7 x 2.4 x 1.1	3.0 x 1.0	74.95	70.95	67.95
694170	Matrix Orbital	LK204-25-1Y	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	Yellow-Black	1,7,10,13	3.9 x 2.4 x 1.2	3.0 x 1.0	68.95	65.45	62.45
694188	Matrix Orbital	LK204-25-WB	20 x 4 w/ keypad	1200 - 19,200	5.0V @ 16mA	White-Blue	1,7,10,14	3.9 x 2.4 x 1.2	3.0 x 1.0	68.95	65.45	62.45
281391	Matrix Orbital	GLK12232-25-SM	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 250mA	Blue-White	1,8	3.4 x 1.4 x 0.5	2.4 x 0.7	74.95	70.95	67.95
281404	Matrix Orbital	GLK12232-25-FGW	122 x 32 w/ graphics	9600 - 115,000	5.0V @ 20mA	Black-White	1,8	3.9 x 2.4 x 0.4	3.3 x 1.4	82.95	78.95	74.95
174182	Matrix Orbital	GLK24064	240 x 64 w/ graphics	1200 - 19,200	5.0V @ 31mA	Black-Yellow/Green	1,3,6	7.1 x 2.6 x 0.7	5.2 x 1.5	165.95	157.95	149.95
281412	Matrix Orbital	GLK24064-25	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 20mA	Black-Yellow/Green	1,9	7.1 x 2.6 x 1.1	5.0 x 1.3	168.95	—	—
694372	Matrix Orbital	GLK24064-25-GW	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	Green-White	1,9,12	7.1 x 2.6 x 0.7	5.0 x 1.3	164.95	155.95	148.95
694381	Matrix Orbital	GLK24064-25-WB	240 x 64 w/ graphics	9600 - 115,000	5.0V @ 35mA	White-Blue	1,9,14	7.1 x 2.6 x 0.7	5.0 x 1.3	179.95	169.95	159.95

\*1. For a power supply, Jameco recommends P/N 164101, pg 122

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)

3. Manual included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature

7. Connect up to 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack® accepts RS232, CMOS or TTL signal

12. Grey text/white background 13. Inverse yellow

14. White text/blue background 15. Inverse red



JAMECO	ValuePro	Incandescent Lamps		* Order in multiples of 10								
Part No.	Cross Ref.	Mfr.	Fig.	Description	Volts	MSCP	1	10	100			
209390	14	JVP	1	G3 1/2 miniature screw	2.47	.50	.45	.39	.35			
209402	40	JVP	2	T3 1/4 miniature screw	6.3	.50	.35	.29	.25			
209411	44	JVP	6	T3 1/4 miniature bayonet	6.3	.90	.35	.29	.25			
209429	46	JVP	2	T3 1/4 miniature screw	6.3	.90	.49	.45	.39			
209437	47	JVP	3	T3 1/4 miniature bayonet	6.3	.50	.25	.22	.19			
210403	51	JVP	4	G3 1/2 miniature bayonet	7.5	1.0	*	.12	.09			
209453	53	+	4	G3 1/2 miniature bayonet	14.4	1.0	.35	.29	.25			
209461	73	+	5	T1 3/4 wedge	14.0	.30	.35	.29	.25			
209488	86	JVP	5	T1 3/4 wedge	6.3	4.0	.35	.29	.25			
209509	161	+	6	T3 1/4 wedge	14.0	1.0	*	.19	.15			
209525	194	+	6	T3 1/4 wedge	14.0	2.0	*	.12	.09			
209761	685	+	7	T1 midget flange	5.0	.05	.45	.39	.35			
209808	757	+	3	T3 1/4 miniature bayonet	28.0	.62	.35	.29	.25			
209824	1813	+	3	T3 1/4 miniature bayonet	14.4	.86	*	.12	.09			
209832	1815	+	3	T3 1/4 miniature bayonet	14.0	1.4	*	.12	.09			
209859	1818	JVP	3	T3 1/4 miniature bayonet	24.0	3.3	.35	.29	.25			
209883	1821	JVP	8	T3 1/4 screw	28.0	3.4	*	.12	.09			
141073	2182	JVP	9	T1 3/4 wire terminal	14.0	.34	.49	.45	.39			
141066	2200	JVP	9	T1 3/4 wire terminal	5.0	.05	.49	.45	.39			

\* JVP = Jameco ValuePro | + Manufacturer Varies

JAMECO	ValuePro	Incandescent Lamps (Cont.)		* Web Code: DBH								
Part No.	Cross Ref.	Mfr.	Fig.	Description	Volts	MSCP	1	10	100			
141057	6833	JVP	10	T 3/4 wire terminal	5.0	.05	.49	.45	.39			
1943916	CM8-A241	+	11	T1 wire terminal w/ blue cap	12.0	.15	.29	.25	.19			
210008	7328	JVP	12	T1 3/4 bi-pin	6.0	.60	.69	.59	.55			
141006	7361	+	12	T1 3/4 bi-pin	5.0	.05	.45	.39	.35			
210032	7382	JVP	12	T1 3/4 bi-pin	14.0	.30	.65	.59	.55			
210041	7387	JVP	12	T3 1/4 bi-pin	28.0	.30	.65	.59	.55			
210083	7839	JVP	13	T1 bi-pin	28.0	.15	.59	.55	.47			
210092	120MB	JVP	14	T2 miniature bayonet	120.0	1200	.75	.69	.55			
309673	6S6	+	15	S6 candelabra	120	—	.29	.25	.19			
309681	20T6	+	16	T6 1/2 20W intermediate	120	—	.35	.29	.25			
210198	48PSB	JVP	17	T1 tel. slide base type 5	48.0	1800	.49	.45	.39			
210219	60PSB	JVP	17	T2 tel. slide base type 5	60.0	2200	.49	.45	.39			
210374	PR6	+	18	B3 1/2 snl cont. mini flange	2.47	.45	*	.12	.09			

JAMECO	ValuePro	Neon Lamps		* Web Code: VAD								
Part No.	Cross Ref.	Mfr.	Fig.	Description	Voltage	1	10	100				
27351	A1A (NE-2)	JVP	19	Wire terminal .6mA	65-120	.45	.39	.35				
210260	ASA (NE-2E)	JVP	19	Wire terminal .7mA	65-120	*	.19	.17				
210315	C2A (NE-2H)	JVP	19	Wire terminal	65-120	.29	.25	.19				
210286	B2A (NE-51H)	JVP	20	T3 1/4 miniature bayonet	65-120	.59	.55	.47				

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Lamps & LED Tail Lights

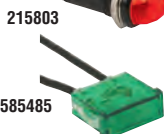
3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole dia.: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

\* Web Code: JBI

- 215803: Red
- 215812: Yellow
- 215830: Green
- 1585485: Green, rectangular
- 6" wire leads
- Size: .91"L x .38"W x .77"D



Part No.	Cross Ref. No.	1	10	100
215803	R9-71N-05-120V-R	\$1.95	\$1.75	\$1.59
215812	R9-71N-05-120V-Y	1.49	1.35	1.19
215830	R9-71N-05-120V-G	1.49	1.35	1.19
1585485	32501001714	.49	.35	.19

## CML Neon Panel Mount Lamp

- 4.4"/4.8" wire leads
- Color: red
- 150VAC - 125VAC
- .310" Dia. mounting hole



Part No.	Mfr. Part No.	1	10	100
1765849	2150A1	\$2.49	\$2.25	\$1.95



## Lamp Sockets

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Fig.	Description	1	10	100
394257	35LH002	1	T3 1/4 screw-mini, non-insulated	\$6.69	\$5.99	\$5.55
394302	35LH007	2	T3 1/4 bayonet-mini, insulated	1.95	1.75	1.59



## 4 1/2" LED Tail Lights

- Set of 4 lamps (SAE-J1133-DOT) with rubber seals for weather proofing/water resistance, and 16 mounting screws
- LED color: red
- 12VDC @ 500mA
- Main power wire: 6' long
- Tail cover color: red
- 3-wire interconnects w/ connectors 2" to 2.5", 2" to 4" wire length
- Use with automobiles, cars, trucks, trailers and boats
- 30 (T1 3/4) LEDs on each lamp

Part No.	Description	1	10	25
2076172	4-1/2" LED tail lights (set of 4)	\$19.95	\$17.95	\$15.95

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

## LED Panel Mount Indicators

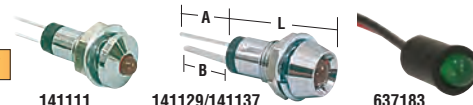
- Easy panel installation
- Panel/status/instrument indicators

\* Web Code: UAU

141111/141129/141137: Chrome housing

Part No.	Cross Ref. No.	Mfr.	LED Size	Color	Dimensions (in.)	Mounting Hole	Vf @ If	Pricing
					L A B			1 10 100
141111	L922SRD	JVP	T1	Red	.56 .34 .25	.23"	2V @ 20mA	\$1.85 \$1.75 \$1.69
141129	L913RD	JVP	T1	Red	.56 .39 .32	.24"	2V @ 20mA	1.39 1.25 1.15
141137	L917RD	JVP	T1 3/4	Red	.70 .55 .47	.31"	2V @ 20mA	1.19 1.05 .95
637183	UT2U1G-H113-R801-W05*	LED	T1 3/4	Green	.55 5.5 5.5	.24"	12V @ 10mA	1.19 1.05 .95

\* Has internal resistor to run 12V@10mA



## 12V Incandescent Panel Mount Lamps

- 215715/215723/215732: Solder terminals - 0.196" (5mm)

\* Web Code: HBJ

Part No.	Cross Ref. No.	Fig.	Color	Mounting Hole	Wire Length	1	10	100
215774	R9-46B-W100-12V-R	1	Red	1/2" (13mm)	3.9" (100mm)	\$1.49	\$1.35	\$1.19
215782	R9-46B-W100-12V-Y	1	Yellow	1/2" (13mm)	3.9" (100mm)	1.49	1.35	1.19
215791	R9-46B-W100-12V-G	1	Green	1/2" (13mm)	3.9" (100mm)	1.49	1.35	1.19
215750	R9-55B-W130-12V-R	2	Red	9/32" (7mm)	4.9" (125mm)	1.49	1.35	1.19
215758	R9-55B-W130-12V-Y	2	Yellow	9/32" (7mm)	4.9" (125mm)	1.49	1.35	1.19
215766	R9-55B-W130-12V-G	2	Green	9/32" (7mm)	4.9" (125mm)	1.65	1.55	1.39
215715	R9-71B-05-12V-R	3	Red	5/8" (16mm)	Terminals	1.85	1.69	1.49
215723	R9-71B-05-12V-Y	3	Yellow	5/8" (16mm)	Terminals	.95	.85	.75
215732	R9-71B-05-12V-G	3	Green	5/8" (16mm)	Terminals	1.49	1.35	1.19



## 3.9" to 12" Miniature Fluorescent Lamps

Now you can easily and affordably mount these fluorescent lamps to add cool cold-cathode effects and give your display a richer look and feel.



\* Web Code: ABP



Part No.	* Mfr.	Mfr. Part No.	Description	Size (L" x Dia.)	1	10	25
239610	VLM	FLW1	Cool white lamp	4 x .160	\$8.95	\$7.95	\$6.95
2077474	JKL	FLC10-12	Cool white lamp	10 x .120	9.95	8.95	7.95
2077458	JKL	FLC10-16	Cool white lamp	10 x .160	9.95	8.95	7.95
2077466	JKL	FLC12-12	Cool white lamp	12 x .120	9.95	8.95	7.95
239636	VLM	FLPS1	12VDC Power Supply for P/N 239610		10.95	9.95	8.95
2077440	VLM	FLPS	For P/N 2077474, 2077458, 2077466		7.95	6.95	5.95

† solder terminals

## Oscillators

### TTL Oscillators

- Frequency stability ±100ppm
- Operating temp.: 0°C to 70°C
- Output load TTL: 10 TTL max

#### Half Can

- Input voltage: +3.3VDC ±10%
- Most fit into a 14-pin DIP socket P/N 676385, pg 39

\* Web Code: MAM

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing
					1 10 100
325462	♦	1.0	15mA	10ns	\$1.19 \$1.09 \$.95
325471	♦	1.2288	15mA	10ns	1.19 1.09 .95
325489	♦	1.8432	15mA	10ns	1.19 1.09 .95
325497	♦	2.0	25mA	5ns	1.19 1.09 .95
325518	JVP	3.6864	15mA	10ns	1.35 1.19 1.09
325526	JVP	4.0	15mA	10ns	1.35 1.19 1.09
325569	JVP	8.0	30mA	10ns	1.35 1.19 1.09
354829	JVP	10.0	25mA	5ns	1.35 1.19 1.09
102779	♦	10.0	45mA	6ns	1.19 1.09 .95
325622	JVP	16.0	30mA	10ns	1.35 1.19 1.09
325631	JVP	16.257	30mA	10ns	1.35 1.19 1.09
325649	JVP	18.432	30mA	10ns	1.35 1.19 1.09
325665	JVP	20.0	30mA	10ns	1.35 1.19 1.09
325681	JVP	28.322	70mA	5ns	1.35 1.19 1.09

#### Half Can (Continued)

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing
					1 10 100
325730	JVP	40.0	70mA	5ns	\$1.35 \$1.19 \$1.09
325737	JVP	48.0	70mA	5ns	1.35 1.19 1.09

#### Full Can

- Input volt.: +5VDC ±0.5VDC
- Most fit into a 14-pin DIP socket P/N 133006, pg 39

\* Web Code: XAD

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing
					1 10 50
27861	♦	1.0	7mA	15ns	\$1.95 \$1.79 \$1.59
144207	♦	1.059	50mA	10ns	1.49 1.35 1.19
27879	♦	1.8432	7mA	15ns	1.95 1.79 1.59
27924	♦	2.0	7mA	15ns	1.49 1.35 1.19
27967	♦	4.0	7mA	10ns	1.95 1.79 1.59
354889	JVP	4.0	15mA	10ns	1.95 1.79 1.59
325374	JVP	4.9152	15mA	10ns	1.49 1.35 1.19

#### Full Can (Continued)

Part No.	* Mfr.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing
					1 10 50
325358	JVP	7.3728	15mA	10ns	\$1.49 \$1.35 \$1.19
27991	♦	8.0	15mA	15ns	1.95 1.79 1.59
354897	JVP	8.0	30mA	10ns	1.49 1.35 1.19
325331	JVP	9.216	30mA	10ns	1.49 1.35 1.19
27887	♦	10.0	15mA	10ns	1.95 1.79 1.59
27895	♦	12.0	15mA	10ns	1.95 1.79 1.59
27908	♦	16.0	15mA	10ns	1.49 1.35 1.19
325382	JVP	18.432	30mA	10ns	1.95 1.79 1.59
27932	♦	20.0	17mA	10ns	1.49 1.35 1.19
354918	JVP	20.0	30mA	10ns	1.19 1.09 .95
27941	♦	32.0	18mA	7ns	1.19 1.09 .95
76822	♦	33.0	18mA	6ns	1.95 1.79 1.59
153226	♦	40.0	15mA	6ns	1.19 1.09 .95
76831	♦	50.0	25mA	6ns	1.19 1.09 .95
325420	JVP	66.666	70mA	5ns	1.49 1.35 1.19
76857	♦	100.0	25mA	3ns	1.95 1.79 1.59



\* JKL = JKL Components | JVP = Jameco ValuePro | LED = Ledtech | VLM = Velleman Inc. | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## FOX SMD Oscillator

### 5.0V HCMOS/TTL output

- Frequency stability:  $\pm 100\text{ppm}$
- Dimensions: 7.5mmW x 1.5mmH x 5.2mmD

Part No.	Product No.	Freq. (MHz)	Imped.	Pricing		
				1	10	100
1592263	F345-200	20	25mA	\$1.95	\$1.79	\$1.59

## Tuning Forks

- Operating temperature range:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance:  $\pm 50\text{ppm}$
- Aging for first year:  $\pm 3\text{ppm}$  (max.  $+25^{\circ}\text{C}$ )

Part No.	Comparable to:	Imped.	1	10	100
14584	CY32.76	10.5pF	\$ .35	\$ .29	\$ .25
325244	JVP-325243	12.5pF	.35	.29	.25

## Crystal Oscillator Sockets

- Good for prototyping and PCB mounting
- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins

Part No.	Description	*Web Code: COS	1	10	100
676385	4-pin		\$ .39	\$ .35	\$ .29
133006	14-pin		.55	.45	.35

## Littelfuse Fuse Holders

- Omni-Blok<sup>®</sup> Molded Base Fuse Block
- Solder terminal • 1-3AG, 2-5x20mm
- Dielectric strength: 1500V min.
- Clip/terminals: tin plated spring brass

Part No.	Mfr. Part No.	Curr. Rating	Size	1	10	100
1712608	520101	10A, 300V	2 ...	\$ .69	\$ .65	\$ .59
1711947	354001-GY	15A, 300V	1 ...	.95	.85	.79

## Panel Mount for 3AG Fuses

- Dielectric strength: 2400V min.
- Black thermoplastic, UL94V-0
- Terminals: copper & copper alloy, tin plated

Part No.	Mfr. Part No.	Curr. Rating	1	10	100
1711681	342012	20A ...	\$1.99	\$1.69	\$1.59

For R/C Crystal Oscillators Online, see Page 183

## JAMECO ValuePro

### Low Profile Fuse Clips

- Low contact resistance
- Withstands shock/vibration
- Order in multiples of 10

Part No.	Description	For Use With†	Size (H" x W" x D" x P")	10	100	500
102860	5mm, front leads	1	.37 x .25 x .21 x .19	\$1.15	\$1.13	\$ .09
102842	1/4", front leads (10A)	2	.32 x .27 x .25 x .23	.15	.13	.09
119280	5mm, side leads	1	.33 x .25 x .20 x .21	.15	.13	.09

### 5mm x 20mm Miniature Thumbscrew Cap Holders

- Straight solder terminal
- Size: 1.5"L x 0.6"Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	500
150464	CE	6A @ 250VAC	.50"Dia. x .43"Flat ...	\$1.09	\$ .99	\$ .89	\$ .79
102825	UL/CSA	10A @ 250VAC	.50"Dia. ....	1.25	1.09	.95	.89

### 1/4" x 1/4" Standard Thumbscrew Cap Holders

- Straight solder terminal
- Current: 10A @ 250VAC

Part No.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100	500
120994	CE	1.95" x .71"	.58"Dia. (Double D-style) ...	\$ .95	\$ .85	\$ .75	\$ .65
18703	UL/CSA	2.05" x .71"	.58"Dia. x .52"Flat (D-style) ...	1.59	1.35	1.19	.95

### 1/4" x 1/4" PCB Fuse Holder

- 16A @ 250V
- Bussman

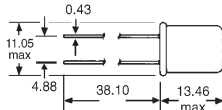
Part No.	*Mfr.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100
1769743	BSM	UL/CSA/VDE	1.855 x .51	.4 x .4 grid	\$6.49	\$5.95	\$5.49

\* BSM = Bussman | JVP = Jameco ValuePro | † Manufacturer Varies

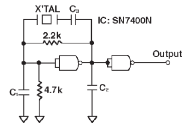
# Crystals, Fuse Holders & Clips

## Crystals

- Frequency calibration tolerance:  $\pm 50\text{ppm}$  @  $25^{\circ}\text{C}$
- Freq. stability tolerance:  $\pm 50\text{ppm}$  from  $-10^{\circ}$  to  $+60^{\circ}\text{C}$
- Operating temperature:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Shunt capacitance: 7pF max.
- Drive level: 4.0mW max.



HC49/U (HC18/U) Case  
Dimensions in millimeters



Application Reference (4-14MHz) (parallel resonance)

### HC49/U (HC18/U) Case

Part No.	*Mfr.	Frequency (MHz)	Impedance	Pricing		
				1	10	100
102613	♦	1.8432	18pF	\$ .59	\$ .55	\$ .49
102621	♦	2.0	Series	.59	.55	.49
324283	JVP	2.0	Series	.29	.26	.23
101274	♦	2.4576	32pF	.59	.55	.49
14533	♦	3.579545	18pF	.59	.55	.49
324364	JVP	4.0	Series	.59	.55	.49
14592	♦	4.0	20pF	.59	.55	.49
324371	JVP	4.194	12pF	.29	.26	.23
324419	JVP	5.0	20pF	.29	.26	.23
324451	JVP	6.0	32pF	.29	.26	.23
324460	JVP	6.0	Series	.29	.26	.23
14710	♦	7.3728	30pF	.29	.26	.23
14728	♦	8.0	Series	.59	.55	.49
14381	♦	10.0	Series	.59	.55	.49
120061	♦	11.0592	Series	.59	.55	.49
324128	JVP	11.0592	Series	.29	.26	.23
324110	JVP	11.0592	32pF	.59	.55	.49
14402	♦	12.0	Series	.59	.55	.49
537799	♦	14.31818	Series	.29	.26	.23
14453	JVP	16.0	Series	.59	.55	.49
324216	JVP	18.0	20pF	.29	.26	.23
324233	JVP	18.432	20pF	.59	.55	.49
324241	JVP	19.6608	20pF	.29	.26	.23
324268	JVP	20.0	20pF	.59	.55	.49
14517	♦	20.0	Series	.59	.55	.49
324398	JVP	49.86	20pF	.29	.26	.23

## Fuse Holders & Clips



### 5mm x 20mm Miniature Low Profile Fuse Holder

- Current: 10A @ 250VAC
- D-style

Part No.	Approvals	Size (L" x Dia.)	Mounting Hole	1	10	100
102832	UL/CSA	1.4 x 0.6	.5"Dia. x .46"flat	\$2.49	\$2.19	\$1.99

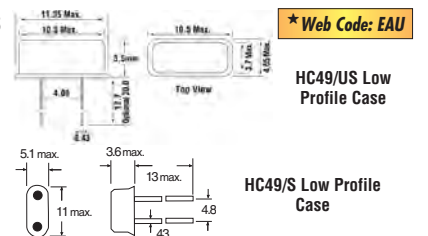
### 5mm x 20mm Miniature In-Line Fuse Holder

Part No.	AWG	Wire Color	Body Size	1	10	100
109330	20	Red	1.8"L	\$ .69	\$ .65	\$ .59

### 1/4" x 1/4" Standard In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center

Part No.	AWG	Wire Lengths	Body Length	Body Color/Wire Color	1	10	100
109322	22	3.5/3"	2.4"	Black/Red	\$ .79	\$ .75	\$ .69
102868	20	3/3"	2.2"	White/Red	.89	.79	.69
151918	18	6/6"	2.4"	White/Red	1.19	1.09	.95
108784	16	21/26"	2.2"	Black/Orange	1.79	1.55	1.29
108792	14	19/25"	2.5"	Black/Red	2.49	2.25	1.95



### JAMECO ValuePro HC49/US Low Profile Case

Part No.	*Mfr.	Frequency (MHz)	Impedance	Pricing		
				1	10	100
324988	JVP	3.6864	18pF	\$ .59	\$ .55	\$ .49
324962	JVP	4.0	20pF	.59	.55	.49
324929	JVP	5.0	20pF	.59	.55	.49
324902	JVP	5.0688	20pF	.59	.55	.49
324865	JVP	6.000	Series	.59	.55	.49
324857	JVP	6.144	32pF	.59	.55	.49
324849	JVP	6.500	20pF	.59	.55	.49
324822	JVP	7.3728	20pF	.59	.55	.49
324831	JVP	7.3728	20pF	.59	.55	.49
324814	JVP	7.68	20pF	.59	.55	.49
324786	JVP	8.0	20pF	.59	.55	.49
324769	JVP	9.000	Series	.59	.55	.49
324742	JVP	9.216	Series	.59	.55	.49
325227	JVP	11.0592	20pF	.59	.55	.49
325198	JVP	12.0	20pF	.59	.55	.49
325104	JVP	18.432	20pF	.59	.55	.49
325113	JVP	18.432	20pF	.59	.55	.49
325075	JVP	19.6608	7pF	.59	.55	.49
325964	JVP	19.6608	20pF	.59	.55	.49
325068	JVP	20.00	20pF	.59	.55	.49
325041	JVP	20.48	20pF	.59	.55	.49
325024	JVP	24.0	20pF	.59	.55	.49

† Industrial temperature range is  $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$

### HC49/S Low Profile Case

- Operating temp.:  $-10^{\circ}$  to  $+60^{\circ}\text{C}$  •  $\pm 5\text{ppm}/\text{year}$  max.
- Drive level: 0.5mW (fundamental frequency)
- Frequency stability tolerance:  $\pm 50\text{ppm}$

Part No.	Comparable:	Freq. (MHz)	Imped.	Pricing		
				1	10	100
137816	CY3.5795	3.5759	17pF	\$ .49	\$ .35	\$ .29
137832	CY4LP	4.000	17pF	.49	.35	.29
137859	CY8LP	8.000	Series	.49	.35	.29
137875	CY11.05LP	11.0592	Series	.49	.35	.29
137891	CY16LP	16.000	Series	.49	.35	.29

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Fuses, Resonators & Varistors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

## 5mm x 20mm Mini Fast Acting GMA Fuses (250V)

★ Web Code: QAM

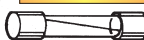
• Recommended for new designs



Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
103887	JVP	GMA-250mA	.25A	\$.29	\$.25	\$.22
102041	JVP	GMA-500mA	.5A	.29	.25	.22
103908	JVP	GMA-1A	1A	.29	.25	.22
103916	JVP	GMA-2A	2A	.29	.25	.22
103924	JVP	GMA-3A	3A	.29	.25	.22
103932	JVP	GMA-5A	5A	.29	.25	.22

## 1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses

★ Web Code: AAB



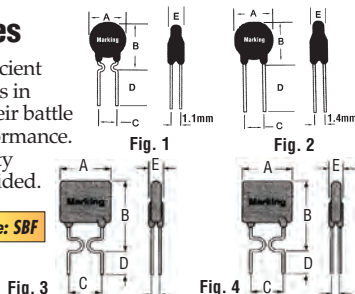
Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
652826	LTL	312.062.HXP	.0625A	\$1.45	\$1.39	\$1.29
69404	JVP	AGC-250mA	.25A	.29	.25	.22
10410	JVP	AGC-0.5+	.5A	.29	.25	.22
10373	JVP	AGC-1A	1A	.29	.25	.22
652949	LTL	312001.HXP	1A	.35	.29	.25
197528	JVP	AGC-1.6	1.6A	.29	.25	.22
10382	JVP	AGC-2A	2A	.29	.25	.22
197536	JVP	AGC-2.5	2.5A	.29	.25	.22
69439	JVP	AGC-3A	3A	.29	.25	.22
197544	JVP	AGC-4	4A	.29	.25	.22
10402	JVP	AGC-5A	5A	.29	.25	.22
653010	LTL	312005.HXP	5A	.35	.29	.25
197552	JVP	AGC-6.3	6.3A	.29	.25	.22
69462	JVP	AGC-10	10A	.29	.25	.22
186301	JVP	AGC-16	16A	.29	.25	.22

## Resettable Fuses

Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

- Rated voltage: (V<sub>MAX</sub>): 60V
- Max. current: (I<sub>MAX</sub>): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.

★ Web Code: SBF



Part No.	Mfr. P/N	Hold Curr.	Trip Curr.	Fig.	Size (mm)			Pricing			
		(I <sub>H</sub> , A)	(I <sub>T</sub> , A)		A	B	C	E	1	10	100
199832	RA020-60 <sup>Ⓜ</sup>	0.20	0.40	1	7.4	12.2	5.1	3.1	\$.59	\$.55	\$.49
199858	RA030-60 <sup>Ⓜ</sup>	0.30	0.60	1	7.4	13.0	5.1	3.1	.59	.55	.49
199866	RA040-60 <sup>Ⓜ</sup>	0.40	0.80	1	7.6	13.5	5.1	3.1	.59	.55	.49
199874	RA050-60 <sup>Ⓜ</sup>	0.50	1.00	1	7.9	13.7	5.1	3.1	.59	.55	.49
199891	RA075-60 <sup>Ⓜ</sup>	0.50	1.50	1	10.4	15.2	5.1	3.1	.59	.55	.49
199882	RA065-60 <sup>Ⓜ</sup>	0.65	1.30	1	9.7	14.5	5.1	3.1	.59	.55	.49
199912	RA110-60 <sup>Ⓜ</sup>	1.10	2.20	2	13.0	18.0	5.1	3.1	.59	.55	.49
199997	RB110-30 <sup>Ⓜ</sup>	1.10	2.20	3	7.4	14.2	5.1	3.0	.59	.55	.49
199938	RA160-60 <sup>Ⓜ</sup>	1.60	3.20	2	16.3	21.3	5.1	3.1	.59	.55	.49
200062	RB500-30 <sup>Ⓜ</sup>	5.00	10.00	4	14.0	24.9	10.2	3.0	.59	.55	.49

JAMECO ValuePro

## Ceramic Resonators

- Frequency accuracy: ±0.5% @ 25°C
- Extended temp. range: -20°C to +85°C
- Withstanding volt. (5 sec): 100V max.



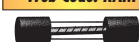
Part No.	Product No.	Resistance	Frequency	Pins	1	10	100
324620	TZTA-6.00MT	6.00	30	2	\$.49	\$.45	\$.39
324638	TZTA-8.00MT	8.00	25	2	.49	.45	.39
324727	TZTT-8.00MT	8.00	25	3	.49	.45	.39
324566	TZTA-12.00MT	12.00	25	2	.49	.45	.39
324582	TZTA-20.00MT	20.00	55	2	.49	.45	.39
324672	TZTT-20.00MT	20.00	55	3	.49	.45	.39

\* JVP = Jameco ValuePro | LTL = Littelfuse | ♦ = Manufacturer Varies

## Fuses

★ Web Code: RAM

## 5mm x 20mm Mini Slow Blow GMD Fuses (250V)



Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
197502	JVP	GMD-500mA	500mA	\$.39	\$.35	\$.29
197465	JVP	GMD-1A	1A	.39	.35	.29
197472	JVP	GMD-2A	2A	.39	.35	.29
197482	JVP	GMD-3.15A	3.15A	.39	.35	.29
197500	JVP	GMD-5A	5A	.39	.35	.29

## 1 1/4" x 1/4" Standard Slow Blow MDL/3AG Fuses (250V)

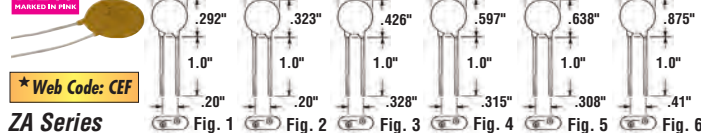
★ Web Code: EAD



Part No.	*Mfr.	Cross Ref.	Amps	1	10	100
653263	LTL	313.010.HXP	.01A	\$2.49	\$2.29	\$1.99
653280	LTL	313.040.HXP	.04A	2.95	2.79	2.59
653301	LTL	313.100.HXP	.10A	1.59	1.49	1.39
653335	LTL	313.187.HXP	.187A	1.69	1.55	1.39
25655	JVP	MDL-1/4A	.25A	.59	.55	.49
653386	LTL	313.400.HXP	.4A	1.39	1.25	1.09
25689	JVP	MDL-1/2	.5A	.59	.55	.49
653423	LTL	313.750.HXP	.75A	.99	.89	.79
25639	JVP	MDL-1A	1A	.59	.55	.49
25646	JVP	MDL-2A	2A	.59	.55	.49
69535	JVP	MDL-3A	3A	.49	.45	.39
653511	LTL	313003.HXP	3A	.59	.55	.49
25672	JVP	MDL-5A	5A	.59	.55	.49
653589	LTL	313008.HXP	8A	.99	.89	.79
69570	JVP	MDL-10A	10A	.59	.55	.49
653600	LTL	313.012.HXP	12A	1.59	1.49	1.39
653626	LTL	313.020.HXP	20A	1.59	1.49	1.39

## LA & ZA Equivalent Series Radial Leaded Varistors

NEW MARKED IN PINK



★ Web Code: CEF

### ZA Series

Part No.	*Mfr.	Product No.	Continuous Voltage		Transient Energy	Max. Clamping Voltage		Fig.	Pricing		
			V <sub>M(AC)</sub>	V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK(A)</sub>		1	10	100
			Joules								
666793	JVP	V22ZA1A	7	14	22	0.9	43	1	\$ .25	\$ .22	\$ .19
667382	JVP	V18ZA1A	11	18	0.8	36	2.5	1	.25	.22	.19
666785	JVP	V22ZA05A	14	22	0.4	80	1	3	.25	.22	.19
666822	JVP	V24ZA50A	14	22	13	43	20	6	.25	.22	.19
666831	JVP	V27ZA05A	17	27	0.5	60	1	3	.25	.22	.19
666777	JVP	V18ZA40A	20	11	18	10	36	6	.25	.22	.19
666881	JVP	V56ZA8A	35	56	10	110	10	5	.25	.22	.19
666890	JVP	V68ZA2-VP	40	68	2.5	135	2.5	1	.25	.22	.19
666929	JVP	V82ZA4A	50	82	8	135	25	2	.25	.22	.19
666953	JVP	V150ZA20A	95	150	50	250	100	6	.25	.22	.19
666988	JVP	V180ZA10A	115	180	30	300	50	5	.25	.25	.22
667008	JVP	V330ZA05A	210	330	6.5	580	5	3	.25	.25	.19

### LA Series

34446	♦	V130LA10A	130	175	38	340	50	4	\$.39	\$.35	\$.29
34462	♦	V130LA20A	130	175	70	340	100	6	.59	.55	.49
1762883	LTL	V130LA20AP	130	175	70	340	100	6	.59	.55	.49
667067	JVP	V140LA5A	130	200	70	340	50	2	.25	.22	.19
667059	JVP	V130LA20B	130	200	140	340	100	6	.59	.55	.49
667121	JVP	V150LA20A	150	240	170	395	100	6	.39	.35	.29
34471	♦	V250LA20	250	330	72	650	50	4	.39	.35	.29
667198	JVP	V320LA40B	320	510	382	845	100	6	.59	.55	.49
667219	JVP	V420LA40B	420	680	23	1120	100	6	.59	.55	.49
667201	JVP	V420LA20A-VP	420	680	130	1120	50	4	.25	.22	.19
667227	JVP	V480LA40A	485	780	148	1290	50	4	.25	.22	.19
667235	JVP	V480LA80B	485	780	265	1290	100	6	.59	.55	.49



## Includes the Most Popular Components with Extra Spaces for Your Customized Expansion

- Each kit includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Each kit has the most popular component in its category
- Each kit is designed for your specific expansion
- Includes identification labels for each drawer, with reorder numbers to replenish stock and blank adhesive labels for empty drawers
- Free standing or wall mountable cabinet • Weight of kits: 4.6 to 6.4 lbs.
- Cabinet size: 6.0"L x 15.0"W x 7.9"H • Drawer size: 5.5"L x 2.7"W x 1.5"H
- 20 clear plastic drawers (319601) and 20 dividers (319611) • Cabinet: ABS-black (P/N 319600 see pg 169)

20-drawer  
component cabinet  
with every kit!



### 7400 Series IC Kit

**SAVE \$145**

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7438	74121	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	74107	74153	74279	7474

Part No.	Description	1	5
84953	350 pcs. 7400 series IC kit .....	\$199.95	\$179.95

### 74LS00 Series IC Kit

**SAVE \$72**

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

84961	420 pcs. 74LS series IC kit .....	\$149.95	\$129.95
130391	Refill for 84961 (420 pcs.) .....	134.95	119.95

### CD4000 Series (CMOS) IC Kit

Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

84970	300 pcs. CD 4000 series IC kit ...	\$79.95	\$69.95
130403	Refill for 84970 (300 pcs.) .....	64.95	59.95

### Linear IC Kit

**SAVE \$51**

10 each	10 each	10 each	10 each	20 each
TL72CP	LM337T	LF412CN	ULN2803A	LM317T
TL74CN	LF353N	LMC555CN	NE5532N	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12CZ	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	DS1488N	7905T	7805T
LM308N	LM393N	DS1489N	7912CT	78L05CZ
LM311N	LF411CN	ULN2003AN	7915CT	7812T

84988	480 pcs. (40 types) Linear IC kit ..	\$189.95	\$169.95
130411	Refill for 84988 (480 pcs.) .....	174.95	159.95

### Transistor Kit

Includes 560 pcs. (20 Types)

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

82595	560 pcs. Transistor kit .....	\$69.95	\$59.95
130374	Refill for 82595 (560 pcs.) .....	54.95	49.95

### Diode and Rectifier Kit

**SAVE 10%**

Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4007	1N4735A	1N5408	1N914
1N751A	1N4150	1N4742A	C106B1	1N4004
1N4001	1N4733A	1N5404	KBP04M	1N4148

82587	420 pcs. Diode kit .....	\$39.95	\$34.95
130366	Refill for 82587 (420 pcs.) .....	29.95	26.95

### 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	100kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	4.7kΩ	
330Ω	2KΩ	5.6kΩ	33kΩ		10kΩ	

Part No.	Description	1	5
108329	540 pcs. 1/8-watt Resistor kit ...	\$25.95	\$22.95
108303	Refill for 108329 (540 pcs.) .....	10.95	8.95

### 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2kΩ	5.6kΩ	47kΩ	100Ω	100kΩ
47Ω	470Ω	2.2kΩ	15kΩ	470kΩ	220Ω	
150Ω	680Ω	2.7kΩ	20kΩ	1MΩ	1kΩ	
270Ω	1.2kΩ	3.3kΩ	22kΩ	10MΩ	4.7kΩ	
330Ω	1.5kΩ	5.1kΩ	33kΩ		10kΩ	

81832	540 pcs. 1/4-watt Resistor kit ...	\$27.95	\$25.95
103166	Refill for 81832 (540 pcs.) .....	12.95	10.95

### 1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/2-Watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	390Ω	2.2kΩ	6.8kΩ	47kΩ	100Ω	100kΩ
47Ω	470Ω	2.7kΩ	15kΩ	470kΩ	220Ω	
150Ω	680Ω	3.3kΩ	22kΩ	1MΩ	1kΩ	
270Ω	1.5kΩ	5.1kΩ	27kΩ	10MΩ	4.7kΩ	
330Ω	2kΩ	5.6kΩ	33kΩ		10kΩ	

107879	540 pcs. 1/2-watt Resistor kit .....	\$29.95	\$26.95
107853	Refill for 107879 (540 pcs.) .....	15.95	14.25

### 1/2-Watt Single Turn Cermet Pot Kit

10 each	10 each	10 each	10 each	10 each
63P500Ω	63P2kΩ	63P10kΩ	63P50kΩ	63P500kΩ
63P1kΩ	63P5kΩ	63P20kΩ	63P100kΩ	63P1MΩ

85032	100 pcs. single turn Pot kit .....	\$74.95	\$64.95
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### 3/4-Watt 15 Turn Cermet Pot Kit

Includes 100 pcs. (10 Values) 3/4-Watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500Ω	43P2kΩ	43P10kΩ	43P50kΩ	43P500kΩ
43P1kΩ	43P5kΩ	43P20kΩ	43P100kΩ	43P1MΩ

85041	100 pcs. 15 turn Pot kit .....	\$84.95	\$74.95
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### LEDs & Mounting Hardware Kit

Includes 560 pcs. (20 Types) LEDs and Mounting Hardware

**SAVE \$15**

10 each	10 each	10 each	10 each	100 each
11359	34657	34761	114673	23077
11797	34673	104248	114681	95513
14277	34690	104256	136493	202471
34606	34711	104264	175695	2006730

84996	560 pcs. LED & Hardware kit ....	\$69.95	\$59.95
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### Switch Kit

**SAVE \$46**

Includes 150 pcs. (15 Types) Pushbutton, DIP & Toggle Switches

10 each	10 each	10 each	10 each	10 each
21910	21979	26358	26649	109171
21936	26315	26367	38818	139012
21952	26331	26623	76523	153252

85059	150 pcs. Switch kit .....	\$119.95	\$109.95
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85059 (Switch Kit)

81841 (Capacitor Kit)

### Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 Types) Spacer, Hex Nuts **SAVE \$173**  
Flat, Tooth & Lock Washers and Slotted PH Screws

100 each	100 each	100 each	100 each	100 each	100 each
Spacers	Hex Nuts	Flat	Internal Tooth	Split Lock	PH Machine
—	2-56	#2	#2	#2	2-56 x 1/4, 1/2
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/4, 1/2

Part No.	Description	1	5
108433	2700 pcs. Electronic Hardware kit ..	\$99.95	\$89.95

### Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 Types) 50V ±20% Monolithic Ceramic Caps.

10 each	10 each	10 each	10 each	100 each
22pF	.001μF	.047μF	.22μF	.01μF
100pF	.0022μF	.47μF	1μF	.1μF

171475	280 pcs. Monolithic Cap. kit .....	\$36.95	\$32.95
171483	Refill for 171475 (280 pcs.) .....	24.95	21.95

### Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 Values) Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100μF @ 50V	1000μF @ 16V	1μF @ 50V	3.3μF @ 50V	22μF @ 50V
220μF @ 25V	2200μF @ 25V	1μF @ 100V	4.7μF @ 50V	47μF @ 50V
470μF @ 25V	3300μF @ 25V	2μF @ 50V	10μF @ 50V	100μF @ 25V

81867	240 pcs. Radial Capacitor kit .....	\$39.95	\$34.95
130331	Refill for 81867 (240 pcs.) .....	29.95	24.95

### Axial Capacitor Kit

**SAVE \$15**

Includes 140 pcs. (10 Values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47μF @ 50V	220μF @ 50V	1000μF @ 25V	1μF @ 50V	10μF @ 50V
100μF @ 50V	470μF @ 50V	2200μF @ 16V	4.7μF @ 50V	22μF @ 50V

81875	240 pcs. Radial Capacitor kit .....	\$39.95	\$34.95
130340	Refill for 81875 (140 pcs.) .....	26.95	23.95

### Ceramic Disc Capacitor Kit

**SAVE \$21**

Includes 520 pcs. (10 Values) 50V Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022μF	.01μF
22pF	100pF	.001μF	.047μF	.1μF

81859	520 pcs. Ceramic Capacitor kit ....	\$34.95	\$29.95
130232	Refill for 81859 (520 pcs.) .....	22.95	19.95

### Mylar Capacitor Kit

**SAVE \$20**

Includes 280 pcs. (10 Values) 100V ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001μF	.022μF	.047μF	.47μF	.01μF
.0047μF	.033μF	.22μF	1μF	.1μF

81883	280 pcs. Mylar Capacitor kit .....	\$39.95	\$34.95
130358	Refill for 81883 .....	29.95	24.95

### Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 Values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1μF @ 35V	1μF @ 25V	3.3μF @ 35V	10μF @ 16V	22μF @ 16V
.22μF @ 35V	1μF @ 16V	4.7μF @ 35V	10μF @ 35V	33μF @ 25V
.47μF @ 25V	2.2μF @ 16V	6.8μF @ 35V	15μF @ 25V	47μF @ 25V

81841	150 pcs. Tantalum Capacitor kit ..	\$79.95	\$69.95
130260	Refill for 81841 (150 pcs.) .....	64.95	54.95



# Component Grab Bags

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



135394 – Capacitors



135271 – LEDs



169578 – Photocells



18294 – Toy Motors



149649 – Fans



55968 – Spacers



319600 – Cabinet

• Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213) referenced towards the bottom of the page.

## Capacitor Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17857	GB100	200 assorted ceramic disc capacitors	0.2	\$6.95	\$5.95
135335	GB100LB	900 assorted ceramic disc capacitors	1.0	14.95	12.95
17881	GB101	100 assorted mylar capacitors	0.3	5.95	4.95
135458	GB101LB	400 pcs assorted mylar capacitors	1.0	14.95	12.95
17911	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	6.95	5.95
135394	GB102LB	300 assorted electrolytic capacitors radial, axial, snap (photo above)	1.0	12.95	10.95
17945	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	12.95	10.95

## Inductors and Chokes

Part No.	Product No.	Description	Wt. (lbs.)	1	10
2081342	GB200	100 assorted axial chokes & inductors	0.2	\$9.95	\$8.95

## Resistors and Resistor Network Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
134130	GB115	200 asst. 1/8, 1/4, 1/2 resistors (2.5&10%)	0.8	\$5.95	\$4.95
18104	GB116	200 assorted 1/4W resistors (5&10%)	0.1	4.95	3.95
135351	GB116LB	2000 assorted 1/4W resistors	0.8	14.95	12.95
18139	GB117	200 assorted 1/2W resistors (5&10%)	0.2	6.95	5.95
18163	GB118	200 asst. 1/8W resistor networks (2&5%) (8 & 10-pin SIP packages, 22Ω-150k)	0.3	5.95	4.95

## Trimmers, Single and Multi-Turn Potentiometers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18075	GB113	100 assorted 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	\$6.95	\$5.95
18278	GB174	100 assorted 1/4W, 1/2W & 3/4W multi-turn pots (100Ω to 5MΩ assorted values)	0.2	9.95	8.95
135407	GB174LB	300 assorted 1/4W, 1/2W & 3/4W multi-turn pots (100Ω to 5MΩ assorted values)	1.0	19.95	17.95

## LEDs, 7-Segment Displays and Photocells

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
18041	GB110	100 assorted sizes & colored LEDs (T1 & T1½ round and rectangular)	0.1	\$7.95	\$6.95	\$5.95
18323	GB186	500 assorted sizes #18041 LEDs	0.3	24.95	21.95	19.95
135271	GB110LB	1900 assorted #18041 LEDs	1.0	59.95	54.95	49.95
18201	GB162	50 assorted sizes of colored displays (7-segment LED, modules, stick)	0.5	10.95	9.95	8.95
169578	GB125	100 assorted values photocells	0.2	21.95	19.95	17.95

## Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

**Includes:** Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Product No.	Description	Wt. (lbs.)	1	10	50
163213	GB197	Schwab's School Selection	2.0	\$49.95	\$44.95	\$39.95
319600	6897CAB	20 drawer component cabinet	4.7	16.95	15.49	13.95

\$79.55 Value



What's your suggestion?



149649 – Fans



55968 – Spacers



319600 – Cabinet

## Integrated Circuits, Sockets and Male Headers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108	100 assorted TTL DIP & SMDs (74, 74ALS, 74HC, 74HCT, 74F, 74LS, 74S)	0.2	\$9.95	\$8.95
135280	GB108LB	400 assorted TTL series DIP & SMDs (same as P/N 17996, above)	1.0	24.95	22.49
18024	GB109	100 asst. linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.6	12.95	11.49
145242	GB109LB	300 assorted linear series (NSC, Motorola, TI) TO-3, 8 & 14-pin DIP, SOIC packages	0.5	29.95	26.95
105620	GB120	100 assorted sockets (DIP, PGA, SIMM, SIP)	0.3	6.95	5.95
135386	GB120LB	300 assorted sockets (DIP, PGA, SIMM, SIP)	1.0	14.95	12.95
2095138	GB204	100 assorted .100 male headers (breakway) Straight, right angle, single and double row	0.3	9.95	8.95

## Diodes, Transistors and Crystals/Oscillators

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
17961	GB107	200 assorted diodes (zener, switching, silicon)	0.1	\$9.95	\$8.95	\$7.95
18171	GB127	100 assorted transistors (NPN, PNP, power)	0.1	7.95	6.95	5.95
114446	GB150	100 assorted crystals/oscillators	0.2	7.95	6.95	5.95

## Switches, Toy Motors, Gears and Fans

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18235	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	\$8.95	\$7.95
135378	GB165LB	150 assorted #18235 switches	1.0	19.95	17.95
18294	GB182	5 assorted toy DC motors (1.5-24V)	1.1	7.95	6.95
149649	GB193	5 assorted AC&DC fans (photo above)	4.5	9.95	8.95
1943094	GB198	30 assorted gears, plastic/nylon (20, 22, 23, 26, 30, 50, 63 teeth vary)	0.3	12.95	10.95

## Spacer, Standoff and Terminal Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10
55968	GB140	100 assorted 4-40, 6-32, 8-32 round/hex, alum/brass/nylon, spacers/standoffs	0.3	\$14.95	\$12.95
135423	GB140LB	300 assorted same as P/N 55968	2.0	29.95	26.95
2082118	GB203	100 assorted solderless terminals spade, ring, faston, butt, crimp types	2.0	7.95	6.95

## Screw Hardware & Drill Bit Assortments

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
171571	GB149	500 assorted types of screws, nuts, washers & lock washers	1.0	\$6.95	\$5.95	\$4.95
171635	GB149LB	1400 asst. same as P/N 171571	2.0	15.95	14.95	13.95
2082038	GB202	20 asst. drill bits 10 sizes: .021" (#75) thru .12" (#31)	0.6	14.95	13.49	11.95

## Bumpers and Rubber Feet Assortment

Part No.	Product No.	Description	1	10
2081385	GB201	100 assorted bumpers & adhesive rubber feet	\$8.95	\$7.95

## Surprise Electronic Component Grab Bag

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (1000 pcs.)

Our Best Seller!

Part No.	Product No.	Description	1	10
135263	GB191LB	1000 assorted pieces electronic components	\$19.95	\$17.95



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## 1/4-Watt Carbon Film Resistors (±5%) RoHS

### Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks



★ Web Code: RCN

### Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

Pricing per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	1000	5000	25000
(see Standard Resistor Values Chart below)	\$.015	\$.011	\$.009	\$.007

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	Pricing		
				1	5	50
10720	ASST8-R	—	5 ea. 70 values (350 pcs.)  (every other value from 10Ω - 5.6 MΩ)	\$9.95	\$8.49	\$6.95
103166	ASST30-R	● ✱	10 ea. 24 values marked ● and 50 ea. 6 values marked ✱ (540 pcs.)	12.95	10.95	8.95
10664	ASST27-R	▲	100 ea. 27 values marked (2,700 pcs.)	24.95	21.95	19.95
81832	N/A	—	1/4-watt resistor cabinet kit 30 values, see pg 41 (540 pcs.)	27.95	25.95	23.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	
690216	2.2	690427	15	690620	▲✱	100	690822	▲●	680	691024	▲✱	4.7k	691227	▲●	33k	
690224	2.4	690435	16	690638	110	690831	750	691032	▲●	5.1k	691235	36k	691438	240k	691631	
690232	2.7	690443	18	690646	120	690849	820	691041	▲●	5.6k	691243	39k	691446	270k	691892	
690241	3.0	690451	20	690654	130	690857	910	691059	6.2k	691251	43k	691454	300k	691649	2.0M	
690259	3.3	690460	22	690662	▲●	150	690865	▲✱	1.0k	691067	6.8k	691260	▲●	47k	691462	
690267	3.6	690478	24	690671	160	690873	1.1k	691075	7.5k	691278	51k	691471	360k	691665	2.4M	
690275	3.9	690486	27	690689	180	690881	●	1.2k	691083	8.2k	691286	56k	691489	390k	691673	
690283	4.3	690494	30	690697	200	690890	1.3k	691091	9.1k	691294	62k	691497	430k	691681	3.0M	
690291	4.7	690507	33	690700	▲✱	220	690902	▲●	1.5k	691104	▲✱	10k	691307	68k	691500	▲●
690304	5.1	690515	36	690718	240	690911	1.6k	691112	11k	691315	75k	691518	510k	691702	3.6M	
690312	5.6	690523	39	690726	▲●	270	690929	1.8k	691121	12k	691323	82k	691526	560k	691711	
690321	6.2	690531	43	690734	300	690937	▲●	2.0k	691139	13k	691331	91k	691534	620k	691737	
690339	6.8	690540	▲●	47	690742	▲●	330	690945	▲●	2.2k	691147	▲●	15k	691340	▲✱	
690347	7.5	690558	51	690751	360	690953	2.4k	691155	16k	691358	110k	691551	750k	691753	5.6M	
690363	8.2	690566	56	690769	●	390	690961	▲●	2.7k	691163	18k	691366	120k	691569	820k	
690371	9.1	690574	62	690777	430	690970	3.0k	691171	●	20k	691374	130k	691577	910k	691770	
690380	▲●	10	690582	68	690785	▲●	470	690988	▲●	3.3k	691180	▲●	22k	691382	150k	
690398	11	690591	75	690793	510	690996	3.6k	691198	24k	691391	160k	691593	1.1M	691796	8.2M	
690401	12	690603	82	690806	560	691008	3.9k	691201	27k	691403	180k	691606	1.2M	691809	9.1M	
690419	13	690611	91	690814	620	691016	4.3k	691219	30k	691411	200k	691614	1.3M	691817	▲●	

## 1/2-Watt Carbon Film Resistors (±5%)

### Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks



★ Web Code: SCH

### Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

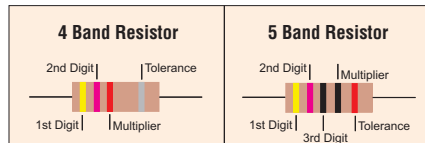
Pricing Per Resistor (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	1000	5000	25000
(see Standard Resistor Values Chart below)	\$.03	\$.02	\$.014	\$.01

Part No.	Cross Ref. No.	Values Included	Description (see chart below)	1	5
107853	ASST1230	✱ #	10 ea. of 24 values marked by ✱ and 50 ea. of 6 values marked by # (540 pcs.)	\$15.95	\$14.25
107845	ASST1227	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	36.95	32.95
107837	ASST1270	N/A	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) (see chart below)	9.95	8.95
107879	CAB12R	N/A	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 41	29.95	26.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577	1.0	659892	22	661255	91	661423 ✓✕	470	661562	1.8k	661731	8.2k	661933	56k	662151 ✓✕	470k
659593	1.2	661124	27	661263 ✓#	100	661431	510	661571 ✓✕	2.0k	661757 ✓#	10k	661950	68k	662194	680k
659614	1.5	661132	30	661280	120	661440	560	661589 ✓✕	2.2k	661773	12k	661976	82k	662215	820k
659631	1.8	661141	33	661301 ✓✕	150	661458	620	661600 ✓✕	2.7k	661790 ✓✕	15k	661992 ✓#	100k	662231 ✓✕	1.0M
659657	2.2	661167	39	661327	180	661466 ✓✕	680	661618	3.0k	661811	18k	662039	150k	662258	1.2M
659673	2.7	661183 ✓✕	47	661335	200	661474	750	661634 ✓✕	3.3k	661829	20k	662071	220k	662291	1.8M
659737	4.7	661191	51	661343 ✓#	220	661482	820	661642	3.6k	661837 ✓✕	22k	662098	270k	662311	2.2M
659809	9.1	661204	56	661351	240	661503 ✓#	1.0k	661651	3.9k	661845	24k	662119	330k	662397	4.7M
659817 ✓✕	10	661212	62	661360 ✓✕	270	661520	1.2k	661677 ✓#	4.7k	661853 ✕	27k	662135	390k	662477 ✓✕	10M
659833	12	661221	68	661378	300	661538	1.3k	661685 ✓✕	5.1k	661870 ✓✕	33k	★ More 1/2W Resistors Web Code: SCH			
659850	15	661239	75	661386 ✓✕	330	661546 ✓✕	1.5k	661693 ✓✕	5.6k	661896	39k				
659884	20	661247	82	661407 ✕	390	661554	1.6k	661714 ✕	6.8k	661917 ✓✕	47k				

(✓), (✱), (#) symbols indicate Resistor values included in Assortments above.

## Resistor Color Code Chart



Band Color	Digit	Multiplier	Tolerance	Band Color	Digit	Multiplier	Tolerance
Black	0	1	20%	Blue	6	1,000,000	±0.2%
Brown	1	10	±1%	Violet	7	10,000,000	±0.1%
Red	2	100	±2%	Gray	8	100,000,000	±0.05%
Orange	3	1,000	±3%	White	9	10 <sup>9</sup>	-10%
Yellow	4	10,000	±4%	Gold	N/A	0.1	±5%
Green	5	100,000	±5%	Silver	N/A	0.01	±10%
				None	N/A	N/A	±20%

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Wirewound, Chip Resistors & Resistor Networks

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## 1/8-Watt Carbon Film Resistor (±5%) Assortment

Part No.	Cross Ref.	Values	Description (see chart, right)	1	5
108303	ASST1830	X #	10 ea. of 24 values marked by X and 50 ea. of 6 values marked below by # (540 pcs.)	\$10.95	\$8.95
108329	CAB182R	—	1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 41	25.95	22.95

### 1/8-Watt Resistors sold in bags of 100

Specify Part No. & Resistor Value	1	10	50	250
(see Standard Resistor Values Chart below)	\$4.00	\$2.00	\$1.00	\$0.75

## 5-Watt Wirewound Resistors (5%)

### Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part no. adjacent to Ω in chart below. Values may not be combined for quantity price breaks.

Pricing Per Resistor					
Specify Part No. & Resistor Value	1	10	100	500	2500
(see Standard Resistor Values Chart below)	\$ .39	\$ .32	\$ .25	\$ .19	\$ .15

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956	0.10	660050	0.50	660279	4.0	660375	10
659964	0.15	660130	1.0	660295	5.0	660412	15
659981	0.22	660201	2.0	660359	8.2	660447	20

## 0805 (1/8W) Chip Resistor Assortment (±5%)

### 144 Values, 50 pcs. each

- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick
- Includes: Case with labels



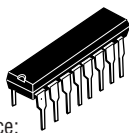
### Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
3.6	30	160	820	3.9k	20k	100k	560k	4.3M
4.0	33	180	910	4.3k	22k	110k	620k	4.7M
4.3	36	200	1.0k	4.7k	24k	120k	750k	5.1M
4.7	39	220	1.1k	5.1k	27k	150k	820k	5.6M
5.0	43	240	1.2k	5.6k	30k	160k	910k	6.2M
5.1	47	270	1.3k	6.2k	33k	180k	1.0M	7.5M
5.6	51	300	1.5k	6.8k	36k	200k	1.1M	8.2M
6.2	56	330	1.6k	7.5k	39k	220k	1.2M	9.1M
6.8	62	360	1.8k	8.2k	43k	240k	2.0M	10M
7.5	68	390	2.0k	9.1k				

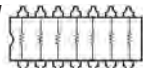
Part No.	Product No.	1	5	25
172806	16-500	\$74.95	\$64.95	\$54.95

## 16-Pin (140mW/Resistor) ±2%

- Max. operating voltage: 100V
- Temp. coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation res.: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401



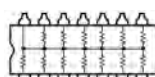
### Isolated



Pricing per each				
1	10	100	1000	
\$ .55	\$ .45	\$ .35	\$ .29	

Part No.	Ohms	Part No.	Ohms
164005	33	108581	470
108556	100	108599	1.0k
856095	120	108610	4.7k
108564	220	108628	10k
108572	330	108644	100k

### Bussed



Order in multiples of 10				
Pricing per each				
10	100	1000		
\$ .45	\$ .35	\$ .29		

Part No.	Ohms
87601	1.0k

## SIP Conformal Coated Resistor Networks (±2% & ±5%)

- Rated power per resistor at 70°C: 125mW/resistor
- Insulation res.: 10,000MΩ min. at 100V
- Low profile is compatible with DIPs

### 6-Pin Bussed (±2%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
267098	10	267830	390	268015	6.8k	268162	100k
267670	22	267856	510	268023	8.2k	268171	120k
267688	27	267864	560	268032	10k	268189	150k
267696	33	267900	1k	268040	12k	268197	180k
267709	39	267901	1.2k	268058	15k	268200	220k
267717	47	267910	1.5k	268066	18k	268218	270k
267725	51	267928	1.8k	268082	22k	268226	330k
267733	56	267936	2k	268091	27k	268234	390k
267741	68	267944	2.2k	268104	33k	268242	470k
267750	82	267952	2.7k	268111	39k	268251	560k
267768	100	267961	3.3k	268120	47k	268269	680k
267776	120	267979	3.9k	268138	56k	268277	820k
267792	180	267995	5.1k	268146	68k	268285	1M
267821	330	268007	5.6k	268154	82k		

### 8-Pin Isolated (±2%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2078021	22	2078039	47	2078055	75	2078071	1.5k
2077984	27	2078047	68	2078135	270		

### 8-Pin Isolated (±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2078119	33	2078127	47	2078098	560	2078012	4.7k
2078101	39	2077992	510	2078004	2.2k		

### 8-Pin Bussed (±2%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
267354	10	276083	1k	97826	10k	276365	120k
275872	27	276091	1.2k	276234	12k	276373	150k
275881	33	276104	1.5k	276242	15k	276381	180k
275899	39	276111	1.8k	276251	18k	276390	220k
275901	47	277797	2.2k	2077941	20k	276402	270k
2077896	56	2077968	2.7k	276277	22k	276411	330k
275936	68	276154	3.3k	276285	27k	276429	390k
275944	82	276163	3.9k	276293	33k	276437	470k
275987	180	276172	4.7k	276306	39k	276445	560k
276007	270	276189	5.1k	276315	47k	276453	680k
97762	470	276197	5.6k	276331	68k	276461	820k
276040	510	276200	6.8k	276349	82k	276470	1M
276074	820	276218	8.2k	276358	100k		

### 8-Pin Bussed (±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
2077829	10	2077909	56	2077950	4.7k	2077634	82k
2077853	22	2077837	150	2077802	8.2k	2077773	150k
2077861	33	2077845	1k	2077925	10k		

### 10-Pin Isolated (\* ±2; † ±5%)

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
97586	330*	2078063	470†	2078080	10k†	2078143	47k†
97594	470*	2077976	680*				

## 1/8-Watt Resistor Assortment Values (Ohms)

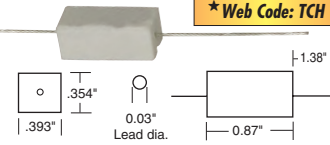
\* Web Code: CAP

10 x	150 x	330 x	680 x	2.0k x	3.3k x	5.6k x	15k x	33k x	470k x
47 x	220 #	390 x	1.0k #	2.2k x	4.7k #	6.8k x	22k x	47k x	1.0M x
100 #	270 x	470 x	1.5k x	2.7k x	5.1k x	10k #	27k x	100k #	10M x

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
107916	100	108097	5.1k	1849591	10k	108214	100k
1849639	1k	108118	6.8k	108185	33k		

\* Web Code: TCH

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable
- Blue Part No. = Limited Quantity Available



## 1206 (1/4W) Chip Resistor Assortment (±1%)

### 56 Values, 200 pcs. each; 11,200 pcs. Total

- Maximum working voltage: 200V
- Operating temp.: 70°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H



### Value Chart (Ohms)

10	121	1.5k	20k	243k
12.1	150	2k	24.3k	301k
15	200	2.43k	30.1k	392k
20	243	3.01k	39.2k	499k
24.3	301	3.92k	49.9k	619k
30.1	392	4.99k	61.9k	750k
39.2	499	6.19k	75k	909k
49.9	619	7.5k	90.9k	1M
61.9	750	9.09k	100k	
75	909	10k	121k	
90.9	1k	12.1k	150k	
100	1.21k	15k	200k	

Part No.	Cross Ref. No.	1	5	25
156882	SMR1206SB	\$94.95	\$84.95	\$76.95



## YAGEO

Expanded Offering of Thousands of Resistors at [www.Jameco.com](http://www.Jameco.com)

### 1/4 Watt 1% Metal Film Resistors

- Wire leads • Color bands

#### MFR Series – 66 Values

\* Web Code: MFR

Qty.	10	100	1000	5000
MF-25	\$ .05	\$ .02	\$ .015	\$ .01

### 1/16 Watt 5% Chip Resistor Arrays

- Operating temp.: -55°C to 155°C
- 4-chip resistors



TC164



YC164

#### TC164 Series – 2 Values

\* Web Code: ZAH

Qty.	10	100	1000	5000
TC164	\$ .08	\$ .06	\$ .04	\$ .02

#### YC164 Series – 4 Values

\* Web Code: ZAG

Qty.	10	100	1000	5000
YC164	.08	.06	.04	.02

## CTS Series 766 SMT Chip Resistor Array

- ±2% or 0.5Ω whichever is greater
- Max. operating volt.: 50V
- Bussed
- Dielectric strength: 100VAC
- Power: 1W @ 70°C

Part No.	Product No.	1	10	100
1179284	745C101103JP	\$ .75	\$ .59	\$ .49



## 16mm Linear Taper Potentiometers

- Rated voltage: 200V
- Body diameter: 0.63"
- Shaft diameter: 0.250"
- Insulation resistance: >100MΩ @ 500VDC



286206



286598



286767



286678



286257

### 1/8-Watt (±20%)

- Rotational angle: 300° (±5°)
- Rotation life: 15k cycles

Qty.	1	10	100	500
Price	\$1.39	\$1.19	\$1.05	\$ .89

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286193	RV16AF-10-20R1-B53	0.531"	5k
286206	RV16AF-10-20R1-B14	0.531"	10k
286214	RV16AF-10-20R1-B54	0.531"	50k
286222	RV16AF-10-20R1-B55	0.531"	500k

### 1/8-Watt with SPST Switch (±20%)

- Withstanding voltage: 500VAC for 1 min.
- Switch rating: 12VDC/1A

Qty.	1	10	100	500
Price	\$2.15	\$1.95	\$1.75	\$1.59

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286598	RV16A03F-10-15R1-B1K	0.335"	1k
286620	RV16A03F-10-15R1-B10K	0.335"	10k

### 1/5-Watt with SPST Switch (±20%)

- Rotational angle: 270° (±5°)
- Rotation life: 100k cycles

Qty.	1	10	100	500
Price	\$2.95	\$2.69	\$2.39	\$1.95

Part No.	Manufacturer Part No.	Shaft Length	Ohms
286767	RV16C-40-16F1-B5K	0.374"	5k
286791	RV16C-40-16F1-B500K	0.374"	500k

## Honeywell



### RV4N Series

- 2W @ 70°C ambient
- Non-rotational key
- Shaft length: 0.875"
- Shaft dia.: 0.25"
- Temp. range: -55°C to +120°C
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"

Includes: Mounting hardware



13936

\* Web Code: JAE

Qty.	1	10	50	100
Price	\$10.49	\$9.25	\$7.95	\$6.95

### RC Series 1% SMD Thick Film Resistors

- Operating temp.: +55°C to 125°C
- General purpose



#### 1/10 Watt 0603 – 16 Values

\* Web Code: ZAA

Qty.	10	100	1000	5000
0603	\$ .05	\$ .02	\$ .015	\$ .01

#### 1/8 Watt 0805 – 45 Values

\* Web Code: ZAB

Qty.	10	100	1000	5000
0805	.06	.024	.014	.014

#### 1/4 Watt 1206 – 27 Values

\* Web Code: ZAC

Qty.	10	100	1000	5000
1206	.08	.025	.02	.007

#### 1/2 Watt 1210 – 1 Value

\* Web Code: ZAQ

Qty.	10	100	1000	5000
1210	.08	.025	.02	.007

### RC Series 5% SMD Thick Film Resistors

- Operating temp.: +55°C to 125°C
- General purpose



#### 1/10 Watt 0603 – 30 Values

\* Web Code: ZAD

Qty.	10	100	1000	5000
0603	\$ .05	\$ .018	\$ .014	\$ .003

#### 1/8 Watt 0805 – 64 Values

\* Web Code: ZAE

Qty.	10	100	1000	5000
0805	.05	.018	.014	.003

#### 1/4 Watt 1206 – 47 Values

\* Web Code: ZAF

Qty.	10	100	1000	5000
1206	.08	.025	.02	.007

\* Web Code: YAX



## 24mm Audio Taper 1/4-Watt (±20%)

- Body diameter: 0.945"
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC
- Max. volt.: 250V

\* Web Code: MBQ

255426

Qty.	1	10	100	500
Price	\$1.49	\$1.29	\$1.09	\$ .95

Part No.	Manufacturer Part No.	Shaft Length	Ohms
255426	RV24AF-10-15R1-A14	0.335"	10k
255434	RV24AF-10-15R1-A54	0.335"	50k
255442	RV24AF-10-15R1-A15	0.335"	100k
255451	RV24AF-10-15R1-A55	0.335"	500k
255469	RV24AF-10-15R1-A16	0.335"	1M

## 1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key, Non-slotted shaft end
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft dia.: 0.25"
- Shaft length: 0.50"

Includes: Mounting hardware

Qty.	1	10	100	500
Price	\$1.09	\$ .95	\$ .79	\$ .65

Part No.	Cross Ref.	Ohms	Part No.	Cross Ref.	Ohms
29050	P1K	1k	29103	P100K	100k
29197	P5K	5k	29066	P1MEG	1M
29082	P10K	10k			

## 2-Watt Linear Taper Potentiometers (±10%)

Part No.	Mfr. Part No.	Military No.	Ohms	Part No.	Mfr. Part No.	Military No.	Ohms
241568	53C3-100	RV4NAYS101A	100	13952	53C3-10k	RV4NAYS103A	10k
241584	53C3-250	RV4NAYS251A	250	241656	53C3-20k	RV4NAYS203A	20k
183610	53C3-500	RV4NAYS501A	500	241664	53C3-25k	RV4NAYS253A	25k
13936	53C3-1k	RV4NAYS102A	1k	95417	53C3-50k	RV4NAYS503A	50k
241613	53C3-2k	RV4NAYS202A	2k	13979	53C3-100k	RV4NAYS104A	100k
241621	53C3-2.5k	RV4NAYS252A	2.5k	241681	53C3-250k	RV4NAYS254A	250k
13995	53C3-5k	RV4NAYS502A	5k	241728	53C3-1M	RV4NAYS105A	1M

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Linear Taper, Wirewound & Cermet Potentiometers

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## 1/2-Watt 24mm Linear Taper (±20%)

- Rotational angle: 300° (±5°)
- Max. volt.: 500V • Shaft Dia.: 0.25"
- Withstanding voltage for 1 minute: 500VAC

\* Web Code: **NBQ**

Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$1.49	\$1.29	\$1.15	\$0.99

Part No.	Manufacturer Part No.	Shaft Length (L)	Ohms
255477	RV24AF-10-15R1-B52	0.335"	500
255485	RV24AF-10-15R1-B13	0.335"	1k
255493	RV24AF-10-15R1-B23	0.335"	2k
255514	RV24AF-10-15R1-B53	0.335"	5k
255522	RV24AF-10-15R1-B14	0.335"	10k
255531	RV24AF-10-15R1-BF4	0.335"	25k
255549	RV24AF-10-15R1-B54	0.335"	50k
255557	RV24AF-10-15R1-B15	0.335"	100k
255565	RV24AF-10-15R1-BF5	0.335"	250k
255573	RV24AF-10-15R1-B55	0.335"	500k

## 2 & 5-Watt Linear Taper Wirewound (±20%)

- Temp. range: -10°C to +70°C
- Non-rotational key

Includes: Mounting hardware

2-Watt (±20%) • Length: 0.825"

- Shaft diameter: 0.25"
- Mounting hole: 0.375" • Base length: 0.25"

\* Web Code: **WAR**

Part No.	Cross Ref. No.	Ohms	1	10	100	500
123960	PT1K	1k	\$3.95	\$3.49	\$3.09	\$2.69
123968	PT5K	5k	4.95	4.49	3.95	3.59

## 5-Watt (±20%)

- Shaft length/diameter: 0.67"/0.23" (6mm)
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"

Part No.	Cross Ref. No.	Ohms	1	10	100	500
140514	PW5B100	100	\$2.75	\$2.49	\$2.25	\$1.75

## Bourns® 2-Watt 10-Turn Wirewound (±5%)

- Insulation resis.: (500VDC) 1000MΩ min.
- Absolute min. resis.: 1Ω or 0.1% maximum
- Operating temp. range: +1°C to +125°C

3540S-1 Series: 2W @ 70°C; metal  
3590S-1 Series: 2W @ 40°C; plastic  
3540S-1 Series: 2W @ 40°C; metal

Part No.	Mfr. Part No.	Ohms	1	10	50
183548	3540S-1-502L	5k	\$14.49	\$12.95	\$11.49
855818	3590S-2-502L	5k	9.95	8.95	8.25
183521	3540S-1-103	10k	14.49	12.95	11.49
771121	3590S-1-103L	10k	9.95	8.95	8.25
771155	3590S-2-103L	10k	9.95	8.95	8.25
771139	3590S-1-104L	100k	12.95	11.95	11.25

## Bourns® 1/4-Watt, 4mm Square SMD, Trim Potentiometers (±10%)

### 3314 Series Top Adjustment

- Adjustment angle: 210°
- End resistance: 1% or 2Ω max.
- Power rating: 0.25W @ 70°C • Straight slot

Part No.	Product No.	Ohms	1	10	100
854330	3314J-1-502E	5K	\$1.25	\$1.09	\$0.95
854284	3314G-1-103E	10K	1.25	1.09	.95

Part No.	Manufacturer Part No.	Shaft Length (L)	Ohms
255582	RV24AF-10-15R1-B16	0.335"	1M
255600	RV24AF-10-15R1-B26	0.335"	2M
264373	RV24AF-10-20K-B52	0.531"	500
264382	RV24AF-10-20K-B13	0.531"	1k
264400	RV24AF-10-20K-B23	0.531"	2k
264402	RV24AF-10-20K-B53	0.531"	5k
264411	RV24AF-10-20K-B14	0.531"	10k
264429	RV24AF-10-20K-B54	0.531"	50k
264437	RV24AF-10-20K-B15	0.531"	100k
264445	RV24AF-10-20K-BF5	0.531"	250k
264462	RV24AF-10-20K-B16	0.531"	1M
264480	RV24AF-10-20K-B26	0.531"	2M
255611	RV24AF-10-40R1-B52	1.32"	500
255629	RV24AF-10-40R1-B13	1.32"	1k
255653	RV24AF-10-40R1-B53	1.32"	5k
255662	RV24AF-10-40R1-B14	1.32"	10k
255696	RV24AF-10-40R1-B15	1.32"	100k
255709	RV24AF-10-40R1-BF5	1.32"	250k

## 1/4-Watt Miniature Linear (±20%)

### X201 (19/32") Vertical Mount

- 15mm thick • Volt. rating: 350VDC
- Power rating: below 5kΩ – 1/4 watt @ 40°C; 5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°

### Cross Ref. Chart

Equivalent to:	
CTS	X201R
Bourns	3355X
PIHER	PT15

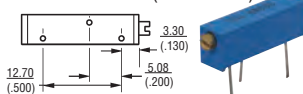
Qty.	1	10	100	500
Price	\$0.55	\$0.45	\$0.39	\$0.35

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
94693	X201R1K	1k	94714	X201R10K	10k
35503	X201R252B	2.5k	94722	X201R50K	50k
94706	X201R5K	5k	94731	X201R100K	100k

## 3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometers Side Adjustment (±10%)

### 3006P Series Value Equivalents

- Low PC board profile
- Temp. range: -55°C to 125°C
- Absolute min. resis.: 1% or 2Ω
- Contact resis.: 1% or 1Ω max.
- Power rating: 0.75W @ 70°C (400V max.)



Qty.	1	10	100	500
Price	\$1.49	\$1.29	\$1.09	\$0.95

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
241235	3006P-101	100	241307	3006P-203	20k
241242	3006P-201	200	241314	3006P-253	25k
41937	3006P-501	500	41911	3006P-503	50k
241252	3006P-501	500	241323	3006P-503	50k
241269	3006P-102	1k	41849	3006P-104	100k
41865	3006P-202	2k	241332	3006P-104	100k
241278	3006P-202	2k	63001	3006P-204	200k
41890	3006P-502	5k	241350	3006P-204	200k
241286	3006P-502	5k	41953	3006P-504	500k
41822	3006P-103	10k	41806	3006P-105	1M
241294	3006P-103	10k	241374	3006P-105	1M
41873	3006P-203	20k			



## 1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft diameter: 0.25"
- Maximum voltage: 500V
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)

\* Web Code: **KBR**

Blue Part No. = Limited Quantity Available

Qty.	1	10	100	500
Price	\$2.25	\$1.99	\$1.79	\$1.59

Part No.	Manufacturer Part No.	Shaft Length	Ohms
263759	RV24A01F-10-15R1-B52	0.335"	500
263768	RV24A01F-10-15R1-B13	0.335"	1k
263784	RV24A01F-10-15R1-B5K	0.335"	5k
263792	RV24A01F-10-15R1-B14	0.335"	10k
263805	RV24A01F-10-15R1-BF4	0.335"	25k
263813	RV24A01F-10-15R1-B54	0.335"	50k
263822	RV24A01F-10-15R1-B100K	0.335"	100k
263848	RV24A01F-10-15R1-B55	0.335"	500k

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### 3329P Series Value Equivalents Cross Ref. Chart

- Sealed to withstand wave soldering and immersion cleaning process
- Terminals: solderable pins
- TO-5 grid
- Top adjustment
- Extended temp. range: -55°C to +150°C

\* Web Code: **JDG**

Qty.	1	10	100	500
Price	\$1.75	\$1.49	\$1.25	\$0.99

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254465	3329P-101	100	254538	3329P-203	20k
254473	3329P-201	200	95484	3329P-104	100k
95441	3329P-102	1k	254570	3329P-204	200k
95450	3329P-502	5k	254597	3329P-105	1M
96719	3329P-103	10k			

## Jameco® ValuePro 1/4-Watt, 1/4" Square Trim Potentiometers Top Adjustment (±10%)

### Bourns 3266W Series Value Equivalents

- 12 turns nominal
- Contact resis. variation: 3% or 3Ω max. (whichever is greater)
- Absolute min. resis.: 1% or 2Ω max. (whichever is greater)
- Power rating: 0.25W @ 70°C (300V max.)
- Insulation resistance: (500VDC) 1,000mΩ min.

Qty.	1	10	100	500
Price	\$2.49	\$2.25	\$1.95	\$1.75

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254609	3266W-500	50	254677	3266W-103	10k
254617	3266W-101	100	254692	3266W-253	25k
254626	3266W-201	200	254706	3266W-503	50k
254633	3266W-501	500	254714	3266W-104	100k
254642	3266W-102	1k	254722	3266W-204	200k
254651	3266W-202	2k	254730	3266W-504	500k
254669	3266W-502	5k	254749	3266W-105	1M

## Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade

Part No.	Description	Size	1	10	100
153315	Trimmer tool	5.2"L	\$1.75	\$1.49	\$1.25

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## 1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers (±10%)

- Linear taper
- Insulation resistance: 500VDC 1000MΩ min.
- Contact res.: 1% or 3Ω
- Rotation life: 200 cycles
- Absolute min. res.: 1% or 2Ω
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Wipe positioning: 50% nominal



\* Web Code: UDF

Cross Ref. Chart

Equivalent to:	
Bourns	3362P
Copal	CT-6P
Murata	PVC6
Vishay	76

Qty.	1	10	100	500
Price	\$ .75	\$ .65	\$ .55	\$ .45

### 3362H Series (Top Adjustment Sealed)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
770363	3362H-102	1k	770371	3362H-103	10k

## 1/2-Watt, 3/8" Square, Multi-Turn Tri Top Adjustment (±10%) Potentiometers

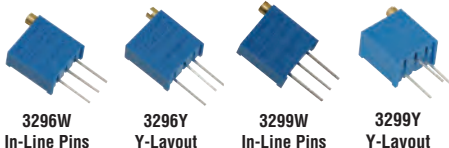
### Bourns 3296 and 3299 Series Equivalents

- Resistance tolerance: ±10%
- 25 turns nominal
- Insulation resistance: (500VDC) 1,000MΩ min.
- Absolute min. resistance: 1% or 2Ω max.
- Contact resistance: 1% or 3Ω
- Power rating: 0.5W @ 70°C (300V max.)
- Temp range: -55°C to 150°C

Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mecopcal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

\* Web Code: TDF



Price	3296W	3296Y	3299W	3299Y
1 pc.	\$1.95	\$1.95	\$1.95	\$2.25
10 pcs.	1.75	1.75	1.75	1.95
100 pcs.	1.49	1.49	1.49	1.49
500 pcs.	1.35	1.35	1.35	1.35

### 3362P Series (Top Adjustment)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
191644	3362P-200	20	182837	3362P-103	10k
189341	3362P-500	50	254002	3362P-203	20k
253965	3362P-101	100	254028	3362P-503	50k
253972	3362P-201	200	254036	3362P-104	100k
182810	3362P-501	500	182844	3362P-204	200k
253982	3362P-102	1k	254044	3362P-504	500k
182829	3362P-502	5k	254115	3362P-105	1M

### 3362W Series (Side Adjustment)

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254140	3362W-101	100	254220	3362W-253	25k
254175	3362W-102	1k	254238	3362W-503	50k
254204	3362W-103	10k	254247	3362W-104	100k

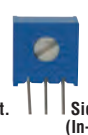
## 1/2-Watt, 3/8" Square, Single-Turn Trim Potentiometers

### Bourns 3386 Series Equivalents

- Resis. tolerance: ±10%
- Insulation resis.: (500VDC) 1,000MΩ min.
- Absolute min. resis.: 2Ω max.
- Contact res. variation: 2% or 3Ω
- Temp. range: -55°C to 125°C
- Power rating: 0.5W @ 85°C (300V max.)

Cross Ref. Chart

Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mecopcal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P



\* Web Code: CDG

Price	3386P	3386W	3386X
1 pc.	\$1.15	\$1.15	\$1.15
10 pcs.	.95	.95	.95
100 pcs.	.79	.79	.79
500 pcs.	.69	.69	.69

Value (Ω)	3386P Part No.	3386W Part No.	3386X Part No.
50Ω	—	241381	—
100Ω	254297+	—	264612
200Ω	254300+	—	—
500Ω	43123	241412	264639
1kΩ	42964+	241429	—
2kΩ	43043+	241437	—
5kΩ	43078	241445+	264664
10kΩ	43001+	241454	264671+
20kΩ	43051+	241461	264680
25kΩ	254377	241470	264698
50kΩ	43107+	241488	264701
100kΩ	43027+	241497	264719
200kΩ	254407	241509	—
250kΩ	254414	241517	264735
300kΩ	43060	—	—
500kΩ	63212+	—	—
1MΩ	42981+	241533	264751
2MΩ	105216	—	—

## Instrumentation Knobs (1/4" Shaft Diameters)



Part No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100	Part No.	Product No.	Body	Pointer	H" x Dia."	Fig.	1	10	100
265009	JK-902B	Black	White	.60 x .95	1	\$ .79	\$ .69	\$ .59	265041	JK-904D	Black/green	White	.47 x .78	9	\$ .75	\$ .59	\$ .49
264998	JK-902A	Black	White	.69 x 1.31	1	.95	.79	.69	265122	JK-906D	Black	White	.58 x .61	10	.95	.79	.69
264990	JK-901D	Black/alum	White	.47 x .78	2	.89	.75	.65	265261	CR-MS-5C5-T18*	Grey	Grey	.68 x .51	11	.49	.39	.35
264955	JK-901C	Black/alum	White	.61 x 1.06	2	.79	.69	.59	265228	CR-MS-1C5-T18*	Grey	Red	.68 x .51	11	.49	.39	.35
264946	JK-901B	Black/alum	White	.64 x 1.29	2	.95	.85	.75	264823	CPBTA191AS6.4BK	Black/black	White	.79 x .77	11	.95	.85	.75
264920	JK-901A	Black/alum	White	.79 x 1.77	2	1.49	1.35	1.09	265244	CR-MS-3C5-T18	Gray	Blue	.68 x .51	11	.49	.39	.35
264892	RN-113A	Black/alum	Numeric	.70 x 1.15	3	.95	.85	.75	265236	CR-MS-2C5-T18	Gray	Yellow	.68 x .51	11	.49	.39	.35
264883	RN-112A	Black/alum	Numeric	.90 x 1.46	3	.95	.85	.75	290125	42008-1	Silver	Silver	.500 x .625	12	1.95	1.75	1.55
264912	RN-114A	Black/alum	Numeric	.58 x 1.46	3	.95	.85	.75	162481	K5-1/4S	Chrome	Silver	.500 x .560	13	.95	.79	.69
102788	JK-903C	Black	White	.54 x 1.25	4	.69	.59	.49	162499	K5-1/4B	Black	White	.500 x .560	14	1.49	1.35	1.19
104176	JK-902C	Black	White	.49 x .75	5	.95	.85	.75	138482	KN031	Aluminum	Black	.610 x .650	15	1.95	1.75	1.55
202287	CP-Z1-M-S	Black/alum	White	.60 x .80	6	.79	.69	.59	138502	KN032	Aluminum	Black	.870 x .750	15	2.19	1.95	1.75
136241	GKB-214	Black/alum	White	.52 x .54	7	.95	.79	.69	138511	KN033	Aluminum	Black	1.18 x .870	15	2.69	2.39	2.15
138393	41108-1	Black/alum	White	.56 x .85	7	1.19	1.05	.95	265156	JK-907A-BL	Gray/blue	Blue	.76 x 1.27	16	1.95	1.75	1.55
265077	JK-905C	Black/blue	White	.58 x .57	8	.95	.79	.69	265148	JK-907A-YW	Gray/yellow	Yellow	.76 x 1.27	16	1.95	1.75	1.55
265084	JK-905D	Black/green	White	.58 x .57	8	.95	.79	.69	265181	JK-907B-BL	Gray/blue	Blue	.86 x .94	17	1.75	1.55	1.39
265051	JK-905A	Black/red	White	.58 x .57	8	.95	.79	.69	265164	JK-907B-RD	Gray/red	Red	.86 x .94	17	1.75	1.55	1.39
265069	JK-905B	Black/yellow	White	.58 x .57	8	.95	.79	.69	265172	JK-907B-YW	Gray/yellow	Yellow	.86 x .94	17	1.75	1.55	1.39
265033	JK-904C	Black/blue	White	.47 x .78	9	.75	.75	.49	265210	JK-907C-BL	Gray/blue	Blue	.72 x .68	18	1.49	1.35	1.19
265018	JK-904A	Black/red	White	.47 x .78	9	.75	.59	.49	265199	JK-907C-RD	Gray/red	Red	.72 x .68	18	1.49	1.35	1.19
265025	JK-904B	Black/yellow	White	.47 x .78	9	.75	.59	.49	265201	JK-907C-YW	Gray/yellow	Yellow	.72 x .68	18	1.49	1.35	1.19

\* For use with 1/4" knurled shaft † 1/8" shaft diameter

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



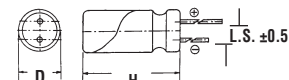
JAMECO ValuePro

## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 85°C

\*Web Code: CCE



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UVR; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SG; Panasonic: KA/KS/SU

\* Order in multiples of 10

\* Order in multiples of 10

Part No.	Cross Ref. No. †	*Mir.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
609043	UVR2A0R1MDD	JVP	0.1	100	5 x 11 x 2	*	\$ .09	\$ .07	\$ .05
330465	RA0.47/50	JVP	0.47	50	5 x 11 x 2	*	.05	.04	.03
330431	RA1/25	JVP	1	25	5 x 11 x 2	*	.06	.05	.04
29831	R1/50	♦	1	50	5 x 11 x 2	*	.06	.05	.04
29833	R1/50	JVP	1	50	5 x 11 x 2	*	.08	.06	.05
94161	5R1/50	JVP	1	50	4 x 5 x 1.5	*	.13	.10	.08
330941	RN1/50	JVP	1	50	5 x 11 x 2	*	.15	.12	.09
115423	R1/63	♦	1	63	5 x 11 x 2	*	.06	.05	.04
1946324	R2.2/6.3TR	♦	2.2	6.3	4 x 8 x 4.5	*	.05	.04	.03
93729	R2.2/50	♦	2.2	50	5 x 11 x 2	*	.07	.05	.04
93731	R2.2/50	JVP	2.2	50	5 x 11 x 2	*	.08	.06	.05
31000	R4.7/50	♦	4.7	50	5 x 11 x 2	*	.06	.05	.04
31002	R4.7/50	JVP	4.7	50	5 x 11 x 2	*	.08	.06	.05
1946341	R10/6.3ATR	♦	10	6.3	4 x 7 x 5	*	.06	.045	.03
1946332	R10/6.3TR	♦	10	6.3	3 x 6 x 4	*	.06	.045	.03
198838	R10J/16+	JVP	10	16	5 x 11 x 2	*	.08	.06	.045
1946367	R10/25ATR	♦	10	25	5 x 11 x 5	*	.05	.04	.03
1946359	R10/25TR	♦	10	25	4 x 7 x 5	*	.06	.05	.04
94212	5R10/25	JVP	10	25	4 x 5 x 1.5	*	.10	.08	.06
330916	RN10/25	JVP	10	25	5 x 11.5 x 1.5	*	.15	.12	.09
94220	5R10/35+	JVP	10	35	5 x 5 x 2	*	.10	.08	.06
94370	7R10/35	JVP	10	35	4 x 7 x 1.5	*	.11	.09	.07
29891	R10/50	♦	10	50	5 x 11 x 2	*	.06	.05	.04
29893	R10/50	JVP	10	50	5 x 11 x 2	*	.10	.08	.06
330482	RA10/63	JVP	10	63	5 x 11 x 2	*	.10	.08	.06
330609	RA10/250	JVP	10	250	10 x 16 x 5	.35	.25	.19	.15
1946287	R22/10TR	♦	22	10	5 x 11 x 5	*	.05	.03	.02
1946295	R22/16	♦	22	16	5 x 12 x 5	*	.05	.035	.025
1946308	R22/25TR	♦	22	25	5 x 11 x 5	*	.06	.04	.03
198943	EC2235H511	JVP	22	35	5 x 11 x 2	*	.06	.04	.03
1946316	R22/50TR	♦	22	50	5 x 12 x 5	*	.06	.04	.03
93739	R22/50	JVP	22	50	5 x 11 x 2	*	.08	.06	.05
93747	R33/50	JVP	33	50	6.3 x 11 x 2.5	*	.11	.09	.07
608999	UVR1J330MED	JVP	33	63	6.3 x 11 x 2.5	*	.12	.10	.08
1946244	R47/16TR	♦	47	16	5 x 12 x 5	*	.05	.03	.02
198863	R47J/16	JVP	47	16	6.3 x 11 x 2.5	*	.10	.08	.06
93753	R47/25	♦	47	25	5 x 11 x 2	*	.05	.035	.025
1946252	R47/35TR	♦	47	35	6 x 12 x 5	*	.05	.035	.025
198952	R47J/35	JVP	47	35	5 x 11 x 2	*	.10	.08	.06
31114	R47/50	♦	47	50	6 x 11 x 2.5	*	.06	.05	.04
31116	R47/50	JVP	47	50	6.3 x 11 x 2.5	*	.11	.09	.07
330617	RA47/250	JVP	47	250	13 x 25 x 5	.55	.45	.35	.29
609289	UVR2V470MHD	JVP	47	350	16 x 35.5 x 7.5	.95	.75	.59	.49
330676	RA47/450	JVP	47	450	18 x 30 x 7.5	1.09	.89	.75	.59
1946261	R68/16TR	♦	68	16	5 x 11 x 5	*	.05	.035	.025
207811	R100/10	♦	100	10	5 x 11 x 2	*	.06	.05	.04
94431	7R100/16+	JVP	100	16	6 x 7 x 2.5	*	.08	.06	.05
330422	RA100/16	JVP	100	16	5 x 11 x 2	*	.10	.08	.06
94289	5R100/16	JVP	100	16	6.5 x 5 x 2.5	*	.15	.12	.09
93761	R100/25	♦	100	25	6 x 11 x 2.5	*	.08	.06	.05
198970	R100J/35	JVP	100	35	6.3 x 11 x 2.5	*	.10	.08	.06
29962	R100/50	♦	100	50	8 x 11 x 3.5	*	.10	.08	.06
29964	R100/50	JVP	100	50	8 x 11.5 x 3.5	*	.13	.10	.08

Part No.	Cross Ref. No. †	*Mir.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
330529	RA100/100	JVP	100	100	10 x 17 x 5	\$ .35	\$ .25	\$ .19	\$ .15
330580	RA100/160S	JVP	100	160	16 x 25 x 7.5	.65	.49	.39	.29
330625	RA100/250	JVP	100	250	16 x 31.5 x 7.5	1.09	.85	.65	.49
330684	RA100/450	JVP	100	450	22 x 42.5 x 10.5	2.49	2.25	1.95	1.69
135125	R220/10	JVP	220	10	6 x 7 x 2.5	*	.10	.08	.06
198872	R220J/16	JVP	220	16	6.3 x 11 x 2.5	*	.11	.09	.07
30496	R220/25	♦	220	25	8 x 11 x 3.5	*	.10	.08	.06
30498	R220/25	JVP	220	25	8.5 x 11 x 3.5	*	.13	.10	.08
93772	R220/35	JVP	220	35	8 x 12 x 3.5	*	.15	.12	.09
93778	R220/50	♦	220	50	10 x 12 x 5	*	.17	.14	.11
93780	R220/50	JVP	220	50	10 x 16 x 5	.25	.19	.15	.12
609115	UVR2C221MHD	JVP	220	160	16 x 30 x 7.5	1.09	.85	.65	.49
93796	R330/25	♦	330	25	10 x 12 x 5.0	*	.12	.09	.07
198978	R330J/35	JVP	330	35	10 x 12.5 x 5	.25	.19	.15	.12
330473	RA330/50	JVP	330	50	10 x 16 x 5	.29	.22	.19	.14
1946279	R470/10TR	♦	470	10	6 x 11 x 5	*	.06	.05	.04
93809	R470/16	♦	470	16	8 x 11 x 3.5	*	.13	.10	.08
93811	R470/16	JVP	470	16	8 x 11.5 x 3.5	.29	.22	.17	.14
31181	R470/25	♦	470	25	10 x 12 x 5	.25	.19	.15	.12
31183	R470/25	JVP	470	25	10 x 12 x 3.5	.35	.25	.19	.15
93817	R470/35	♦	470	35	10 x 16 x 5	.29	.22	.17	.14
93819	R470/35	JVP	470	35	10 x 16 x 5	.39	.32	.25	.19
93825	R470/50	♦	470	50	12 x 20 x 5	.35	.25	.19	.15
93827	R470/50	JVP	470	50	10 x 20 x 5	.39	.32	.25	.19
158465	R470B63+	JVP	470	63	13 x 20 x 5	.69	.55	.45	.35
199102	R470J/100	JVP	470	100	16 x 25 x 7.5	1.15	.89	.69	.55
609140	UVR2C471MRD	JVP	470	160	22 x 40 x 10	1.49	1.25	.99	.89
330456	RA680/25S	JVP	680	25	8 x 16 x 3.5	1.09	.85	.65	.49
1945436	R1000/6.3	♦	1000	6.3	10 x 13 x 5	*	.09	.07	.05
30015	R1000/16	♦	1000	16	10 x 16 x 5	.25	.22	.16	.12
30017	R1000/16	JVP	1000	16	10 x 16 x 5	.35	.25	.19	.15
93833	R1000/25	♦	1000	25	10 x 20 x 5	.35	.25	.19	.15
93835	R1000/25	JVP	1000	25	10 x 20 x 5	.39	.32	.25	.19
93841	R1000/50	♦	1000	50	6.5 x 11.3 x 2.2	.65	.49	.39	.32
93843	R1000/50	JVP	1000	50	13 x 25 x 5	.75	.59	.49	.39
199111	R1000J/100	JVP	1000	100	18 x 41 x 7.5	1.75	1.49	1.25	.99
30533	R2200/25	♦	2200	25	12 x 25 x 5.0	.65	.49	.39	.29
30535	R2200/25	JVP	2200	25	13 x 21 x 5	.69	.55	.45	.35
198986	R2200J/35	JVP	2200	35	16 x 25 x 7.5	.85	.69	.55	.45
608956	UVR1H222MHD	JVP	2200	50	16 x 30 x 7.5	1.15	.89	.69	.55
198898	R3300J/16	JVP	3300	16	13 x 21 x 5	.65	.49	.39	.29
30893	R3300/25	JVP	3300	25	13 x 29 x 5	.85	.69	.55	.45
198994	R3300J/35	JVP	3300	35	16 x 30 x 7.5	1.09	.89	.75	.59
198901	R4700J/16	JVP	4700	16	16 x 25 x 7.5	.85	.69	.55	.45
93850	R4700/25	♦	4700	25	16 x 31 x 7.5	.85	.69	.55	.45
93852	R4700/25	JVP	4700	25	16 x 31.5 x 7.5	1.15	.89	.69	.55
199006	R4700J/35	JVP	4700	35	18 x 35 x 7.5	1.35	1.15	.99	.85
163301	R4700/50	♦	4700	50	22 x 42 x 10	1.65	1.39	1.19	1.05
163302	R4700/50	JVP	4700	50	22 x 41 x 10	1.85	1.59	1.39	1.19
198935	R6800J/25	JVP	6800	25	18 x 35.5 x 7.5	1.25	1.05	.85	.65
608892	UVR1A103MHD	JVP	10000	10	16 x 35.5 x 7.5	.89	.69	.55	.45
608948	UVR1C103MHD	JVP	10000	16	18 x 35 x 7.5	1.29	1.09	.95	.79

Note: Above case sizes may have ± tolerances "TR" at the end of Cross Ref. numbers are Tape and Reel

\*Capacitor dimensions and styles may vary on items with various manufacturers \*\*Non-polarized

\* JVP = Jameco ValuePro | ♦ Manufacturer Varies

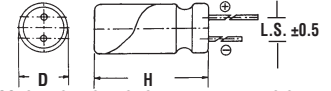
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 105°C 105°C – HT Type General Purpose

★ Web Code: HAA



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UPW/UVZ/UHE; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

\* Order in multiples of 10

\* Order in multiples of 10

Part No.	Cross Ref. No. †	*Mfr.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
609545	UVZ1H0R1MDD	JVP	0.1	50	5 x 11 x 2	*	\$ .11	\$ .08	\$ .06
158481	R0.47B/100	JVP	0.47	100	5 x 11 x 2	*	.11	.08	.06
330772	RB1/50	JVP	1	50	5 x 11 x 2	*	.07	.05	.036
158491	R1B100	JVP	1	100	5 x 11 x 2	*	.12	.09	.07
609959	UVZ2E010MED	JVP	1	250	8 x 11 x 3.5	*	.17	.12	.09
609561	UVZ1H2R2MDD	JVP	2.2	50	5 x 11.5 x 2	*	.09	.06	.045
330781	RB4.7/50	JVP	4.7	50	5 x 11 x 2	*	.07	.05	.04
330692	RB10/16	JVP	10	16	5 x 11 x 2	*	.11	.08	.06
330799	RB10/50	♦	10	50	5 x 11 x 2	*	.07	.05	.037
607849	UPW1H100MDD	JVP	10	50	5 x 11 x 2	*	.12	.09	.07
609641	UVZ1J100MDD	JVP	10	63	5 x 11 x 2		.25	.19	.15
610036	UVZ2W100MDD	JVP	10	450	13 x 21 x 5		.65	.49	.39
158327	R22B35	JVP	22	35	5 x 11 x 2	*	.09	.06	.045
609650	UVZ1J220MDD	JVP	22	63	5 x 11 x 2	*	.10	.08	.06
609828	UVZ2C220MPD	JVP	22	160	10 x 15 x 5		.32	.25	.19
609975	UVZ2E220MHD	JVP	22	250	13 x 20 x 5		.39	.32	.25
607929	UPW1H270MHD	JVP	27	50	5 x 11 x 2	*	.12	.09	.07
607945	UPW1H330MED	JVP	33	50	6.3 x 11 x 2.5	*	.15	.12	.09
609684	UVZ1J330MED	JVP	33	63	6.3 x 11 x 2.8	*	.15	.12	.09
608374	UPW2A330MPD6	JVP	33	100	8 x 15 x 3.5		.25	.19	.15
609502	UVZ1C470MDD	JVP	47	16	5 x 11 x 2	*	.10	.07	.05
1945428	R47/35	♦	47	35	6.3 x 11 x 2	*	.10	.07	.05
330820	RB47/50	JVP	47	50	6.3 x 11 x 2.5	*	.11	.08	.06
608139	UPW1J470MPD	JVP	47	63	8 x 11.5 x 3.5		.25	.19	.15
610010	UVZ2E470MHD	JVP	47	250	13 x 25 x 5		.65	.49	.39
606862	UHE1H560MED	JVP	56	50	8.0 x 11 x 3.5	*	.15	.11	.08
1946228	RB100/10	♦	100	10	5 x 11 x 3.5	*	.09	.06	.045
330740	RB100/25	JVP	100	25	6.3 x 11 x 2.5	*	.11	.08	.06
158394	R100B50	JVP	100	50	8 x 11.5 x 3.5	*	.15	.12	.09
608032	UPL1J101MH6	JVP	100	63	13 x 15 x 5	*	.15	.12	.09
330828	RB100/63	JVP	100	63	10 x 13 x 5		.25	.19	.15
609748	UVZ2A101MPD	JVP	100	100	10 x 20 x 5		.39	.32	.25
609916	UVZ2D101MHD	JVP	100	200	16 x 25 x 7.5		1.09	.85	.65
609967	UVZ2E101MHD	JVP	100	250	16 x 31 x 7.5		1.35	1.09	.85
608340	ECA1JFQ151L	JVP	150	63	10 x 21 x 5	*	.15	.12	.09
1946236	RB180/10	♦	180	10	6.5 x 11 x 2.5	*	.12	.09	.07
207845	R180/16	JVP	180	16	6 x 15 x 2.5	*	.12	.09	.07
606934	EEUF1J181	JVP	180	63	10 x 20 x 5	*	.15	.12	.09
606555	UHE1A221MED	JVP	220	10	6.3 x 11 x 2.5	*	.12	.09	.07
158263	R220B25	JVP	220	25	8 x 11 x 3.5	*	.15	.11	.08
158406	R220B50+	JVP	220	50	10 x 17 x 5		.35	.25	.19
606820	UHE1H221MPD	JVP	220	50	10 x 16 x 5		.35	.25	.19

Part No.	Cross Ref. No. †	*Mfr.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing			
						1	10	100	500
608091	UPW1J221MPD6	JVP	220	63	10 x 25 x 5		\$ .49	\$ .39	\$ .32
609764	UVZ2A221MHD	JVP	220	100	13 x 26 x 5		.55	.45	.35
609721	UVZ1V331MPD	JVP	330	35	10 x 16 x 5		.25	.19	.15
607136	UHE2A331MHD	JVP	330	100	12.5 x 40 x 5		.89	.69	.55
609852	UVZ2C331MHD	JVP	330	160	18 x 40 x 7.5		1.15	.99	.79
609977	UHE1J391MHD	JVP	390	63	18 x 15 x 7.5		.49	.39	.32
609385	UVZ0J471MED	JVP	470	6.3	6 x 11 x 2.5	*	.17	.12	.09
606678	UHE1C471MPD	JVP	470	16	8 x 14 x 3.5	*	.15	.12	.09
158203	R470B16	JVP	470	16	8 x 11 x 3.5		.25	.19	.15
158289	R470B25+	♦	470	25	10 x 16 x 5		.25	.19	.15
606740	UHE1E471MPD6	JVP	470	25	10 x 17 x 5		.32	.25	.19
606854	UHE1H471MPD	JVP	470	50	13 x 20 x 5		.45	.35	.29
608016	UPW1H561MHD	JVP	560	50	13 x 25 x 5		.75	.59	.45
608315	UPW1V681MHD	JVP	680	35	12.5 x 20 x 5		.65	.49	.39
606871	UHE1H681MHD	JVP	680	50	13 x 28 x 5		.85	.65	.49
608163	UPW1J681MHD	JVP	680	63	16 x 25 x 5		.89	.69	.55
607689	UPW1C821MPD	JVP	820	16	10 x 20 x 5		.32	.25	.19
606432	UHE0J102MPD	JVP	1000	6.3	8 x 14 x 3.5	*	.17	.12	.09
330722	RB1000/16	JVP	1000	16	10 x 20 x 5		.35	.29	.22
158298	R1000B25	JVP	1000	25	10 x 17 x 5		.45	.35	.29
158378	R1000B35	JVP	1000	35	13 x 21 x 5		.55	.45	.35
609553	UVZ1H102MHD	JVP	1000	50	13 x 25 x 5		.55	.45	.35
607216	UPW0J122MPD	JVP	1200	6.3	8 x 20 x 3.5		.25	.19	.15
606627	UHE1C122MPD	JVP	1200	16	10 x 24 x 5		.32	.25	.19
606918	UHE1J122MHD	JVP	1200	63	16 x 40 x 7.5		.99	.79	.65
607232	UPW0J152MPD	JVP	1500	6.3	10 x 20 x 5		.39	.32	.25
607398	UPW1A152MPD	JVP	1500	10	10 x 20 x 5		.39	.32	.25
607742	UPW1E152MHD	JVP	1500	25	12.5 x 25 x 5		.55	.45	.35
607873	UPW1H152MHD	JVP	1500	50	16 x 30 x 7.5		1.19	.95	.75
606467	UHE0J182MHD	JVP	1800	6.3	10 x 20 x 5		.35	.25	.19
607751	UPW1E182MHD	JVP	1800	25	13 x 25 x 5		.85	.65	.49
609342	UVZ0J222MPD	JVP	2200	6.3	10 x 20 x 5		.39	.32	.25
606563	UHE1A222MPD	JVP	2200	10	10 x 24 x 5		.45	.35	.29
609705	UVZ1V222MHD	JVP	2200	35	16 x 26 x 7.5		.69	.55	.45
158432	R2200B50	JVP	2200	50	16 x 30 x 7.5		.99	.79	.65
608278	UPW1V332MHD	JVP	3300	35	18 x 33 x 7.5		1.35	1.15	.95
609588	UVZ1H332MHD	JVP	3300	50	18 x 36 x 7.5		1.49	1.25	1.05
609393	UVZ0J472MHD	JVP	4700	6.3	12.5 x 20 x 5		.55	.45	.35
607814	UPW1E472MHD	JVP	4700	25	18 x 35 x 7.5		1.25	1.05	.85
607697	UPW1C822MHD	JVP	8200	16	16 x 33 x 7.5		1.35	1.15	.95
609473	UVZ1C103MHD	JVP	10000	16	18 x 41 x 7.5		1.39	1.19	.99
609326	UVZ0J153MHD	JVP	15000	6.3	16 x 35.5 x 7.5		.89	.69	.55

\* Capacitor dimensions and styles may vary on items with various manufacturers

## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

★ Web Code: EBG



• Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C

• Can-Top safety vent

Part No.	Cross Ref. No.	*Mfr.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing		
						1	10	100
331846	SNA120/450	JVP	120	450	22 x 40 x 8.6	\$2.49	\$2.25	\$1.95
331811	SNA470/250	JVP	470	250	25 x 40 x 8.6	2.49	2.25	1.95
332030	SNB470/250	JVP	470	250	25 x 40 x 8.6	2.49	2.25	1.95
203263	SNB470/400/5	JVP	470	450	35 x 49 x 9	6.95	5.95	4.95
155889	SN560/200	♦	560	200	23 x 41 x 9.5	1.95	1.65	1.39
332056	SNB680/250	JVP	680	250	25 x 48 x 9.5	2.49	2.25	1.95
115378	SNB4700/35	♦	4700	35	25 x 40 x 9	2.09	1.69	1.39

\* Capacitor dimensions and styles may vary on items with various manufacturers

Part No.	Cross Ref. No.	*Mfr.	Value (μF)	Volt	Size (mm) * D x H x L.S.	Pricing		
						1	10	100
115422	SNA4700/50+	JVP	4700	50	30 x 41 x 9.5	\$2.25	\$1.95	\$1.75
331723	SNA4700/63	JVP	4700	63	25 x 40 x 9.1	2.95	2.65	2.35
115431	SN6800/50	♦	6800	50	30 x 31 x 10	2.49	2.25	1.95
331901	SNB6800/50	JVP	6800	50	25.2 x 42.4 x 9	3.95	3.49	2.95
331759	SNA8200/80	JVP	8200	80	35 x 51 x 9	5.95	5.39	4.85
157738	SNB10000/50	JVP	10000	50	35 x 40 x 12	4.75	3.75	3.25
331716	SNA15000/25	JVP	15000	25	25 x 41 x 9	3.49	2.95	2.49

\* Capacitor dimensions and styles may vary on items with various manufacturers

\* JVP = Jameco ValuePro | ♦ Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Electrolytic & Dipped Tantalum Capacitors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

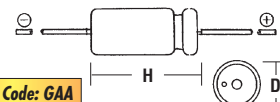
## Aluminum Axial-Lead Electrolytic Capacitors (±20%) 85°C



Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater

\* Order in multiples of 10

\* Web Code: GAA



Part No.	Product No.	Mfr.	Value (µF)	Voltage	Size (mm)* D x H	Pricing			
						1	10	100	500
10866	A1/50	◆	1	50V	5 x 13	✱	\$ .17	\$ .14	\$ .11
10868	A1/50	JVP	1	50V	5 x 12	.29	.22	.17	.14
93569	A2.2/50	◆	2.2	50V	6 x 13	✱	.15	.12	.09
11076	A4.7/50	◆	4.7	50V	6 x 13	✱	.17	.14	.11
1946201	A10/16A	◆	10	16V	5 x 13	✱	.07	.05	.035
1946199	A10/16	◆	10	16V	4 x 7	✱	.08	.06	.04
10882	A10/50	◆	10	50V	6 x 12	✱	.15	.12	.09
10884	A10/50	JVP	10	50V	6 x 12	.25	.19	.15	.12
331425	AB10/450	JVP	10	450V	13 x 25	.95	.75	.59	.49
1946210	A22/16	◆	22	16V	5 x 11	✱	.12	.09	.07
199268	A22J/25	JVP	22	25V	6 x 12.5	.25	.19	.15	.12
331433	AB22/450	JVP	22	450V	16 x 26.5	1.75	1.49	1.25	.99
2081730	A33/35	JVP	33	35V	7 x 14	.25	.19	.15	.12
135319	A47/25	◆	47	25V	8 x 16	✱	.17	.14	.11
11105	A47/50	◆	47	50V	8 x 16	.25	.19	.15	.12
199188	A100J/16	JVP	100	16V	6 x 12.5	.29	.22	.17	.14
199284	A100J/25	JVP	100	25V	8 x 15	.32	.25	.19	.15
93551	A100/35	◆	100	35V	8 x 16	.29	.22	.17	.14
10911	A100/50	◆	100	50V	8 x 20	.29	.22	.17	.14
10913	A100/50	JVP	100	50V	8 x 16	.32	.25	.19	.15
331380	AB100/100	JVP	100	100V	10 x 20.5	.89	.69	.55	.45
331417	AB100/250	JVP	100	250V	16 x 31	2.49	2.25	1.95	1.75
199292	A220J/25	JVP	220	25V	8 x 16	.39	.32	.25	.19

\* Capacitor dimensions and styles may vary on items with various manufacturers

JAMECO ValuePro

## Resin Dipped Solid Tantalum Capacitors (±10%)

- Operating temperature range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Flame retardant coating
- Designed for entertainment and commercial equipment
- Rated voltage DC: ≤ +85°C
- Low leakage current
- Moisture-resistant

\* Web Code: VAE



Part No.	Product No.	Mfr.	Value (µF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
33486	TM.1/35	◆	.10	35	4.5 x 7.0 x 5.2	\$.32	\$.25	\$.19	\$.15
33488	TM.1	JVP	.10	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
545561	TAP104K035SCS	JVP	.10	35	4.0 x 6.0 x 2.5	.39	.32	.25	.19
332111	TDR0.1/50	JVP	.10	50	4.5 x 7.0 x 2.5	.39	.32	.25	.19
545570	TAP104K050SCS	JVP	.10	50	4.0 x 6.0 x 2.5	.45	.35	.29	.22
33507	TM.22/35	◆	.22	35	4.5 x 7.0 x 5.0	.32	.25	.19	.15
33523	TM.33/35	◆	.33	35	4.5 x 7.0 x 2.5	.32	.25	.19	.15
33525	TM.33	JVP	.33	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33531	TM.47/35	◆	.47	35	4.5 x 7.0 x 2.7	.32	.25	.19	.15
33533	TM.47	JVP	.47	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
61102	TM.68	JVP	.68	35	4.5 x 7.0 x 2.5	.25	.19	.15	.12
546142	TAP684K050SCS	JVP	.68	50	4.3 x 7.0 x 2.5	.39	.32	.25	.19
154860	TM1/25	◆	1	25	4.5 x 7.0 x 4.7	.32	.25	.19	.15
545588	TAP105K025SCS	JVP	1	25	4.3 x 7.0 x 2.5	.39	.32	.25	.19
154862	TM1/25	JVP	1	25	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33662	TM1/35	◆	1	35	4.5 x 7.0 x 2.7	.35	.29	.22	.17
545596	TAP105K035SCS	JVP	1	35	4.3 x 7.0 x 2.5	.39	.32	.25	.19
33664	TM1	JVP	1	35	4.5 x 7.0 x 2.5	.39	.32	.25	.19
332144	TDR1/50	JVP	1	50	8.0 x 5.0 x 2.5	.49	.39	.32	.25
545609	TAP105K050SCS	JVP	1	50	4.7 x 7.5 x 2.5	.55	.45	.35	.29
545705	TAP155K025SCS	JVP	1.5	25	4.3 x 7.0 x 2.5	.25	.19	.15	.12
94001	TM2.2/16	◆	2.2	16	4.5 x 7.0 x 4.7	.32	.25	.19	.15
94003	TM2.2/16	JVP	2.2	16	4.5 x 7.0 x 2.5	.39	.32	.25	.19
33736	TM2.2/35	JVP	2.2	35	5.0 x 8.0 x 2.5	.35	.29	.22	.17
545810	TAP225K035SCS	JVP	2.2	35	4.3 x 7.0 x 2.5	.45	.35	.29	.22
332152	TDR2.2/50	JVP	2.2	50	6.5 x 11 x 2.5	.79	.65	.49	.45
545941	TAP335K025SCS	JVP	3.3	25	4.3 x 7.0 x 2.5	.45	.35	.29	.22
33769	TM3.3/35	◆	3.3	35	5.0 x 8.0 x 3.1	.35	.29	.22	.17

Note: Above case sizes may have ± tolerances

\* Capacitor dimensions and styles may vary

Part No.	Product No.	Mfr.	Value (µF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
33873	TM6.8/35	◆	3.3	35	6.5 x 9.0 x 4.7	\$.45	\$.35	\$.29	\$.22
545967	TAP335K050SCS	JVP	3.3	50	5.4 x 8.0 x 2.5	.75	.59	.49	.45
94035	TM4.7/16	◆	4.7	16	5.0 x 8.0 x 2.5	.35	.29	.22	.17
94043	TM4.7/25	◆	4.7	25	5.0 x 8.0 x 4.7	.45	.35	.29	.22
546071	TAP475K025SCS	JVP	4.7	25	4.3 x 7.0 x 2.5	.55	.45	.35	.29
33806	TM4.7/35	◆	4.7	35	5.5 x 9.5 x 2.5	.49	.39	.32	.25
546089	TAP475K035SCS	JVP	4.7	35	4.7 x 7.5 x 2.5	.59	.49	.39	.32
546185	TAP685K025SCS	JVP	6.8	25	4.7 x 7.5 x 2.5	.49	.39	.32	.25
545617	TAP106K006SCS	JVP	10	6.3	4.3 x 7.0 x 2.5	.45	.35	.29	.22
545625	TAP106K010SCS	JVP	10	10	4.7 x 7.5 x 2.5	.49	.39	.32	.25
94060	TM10/16	◆	10	16	4.6 x 7.5 x 3.2	.49	.39	.32	.25
94062	TM10/16	JVP	10	16	5.0 x 8.0 x 2.5	.55	.45	.35	.29
545633	TAP106K020SCS	JVP	10	20	5.4 x 8.0 x 2.5	.55	.45	.35	.29
94078	TM10/25	◆	10	25	5.5 x 9.5 x 2.8	.55	.45	.35	.29
545641	TAP106K025SCS	JVP	10	25	5.4 x 8.0 x 2.5	.59	.49	.39	.32
94080	TM10/25	JVP	10	25	5.5 x 9.5 x 2.5	.59	.49	.39	.32
33689	TM10/35	◆	10	35	6.5 x 11.0 x 4.7	.99	.79	.65	.49
545650	TAP106K035SCS	JVP	10	35	5.4 x 8.0 x 2.5	1.15	.95	.79	.65
33691	TM10	JVP	10	35	5.5 x 11.0 x 2.5	1.15	.95	.79	.65
332161	TDR10/50	JVP	10	50	8.5 x 13.0 x 2.5	2.49	2.25	1.95	1.75
545721	TAP156K010SCS	JVP	15	10	4.7 x 7.5 x 2.5	.39	.32	.25	.19
545748	TAP156K020SCS	JVP	15	20	5.4 x 8.0 x 2.5	.55	.45	.35	.29
33719	TM15/25	JVP	15	25	4.5 x 8.0 x 2.5	.79	.65	.49	.39
597468	TAP156K035SCS	JVP	15	35	5.5 x 9.5 x 4.7	1.49	1.35	1.19	.99
33751	TM22/6.3	◆	22	6.3	4.7 x 7.5 x 2.5	.55	.45	.35	.29
94094	TM22/16	◆	22	16	5.5 x 9.5 x 4.1	.55	.45	.35	.29
94095	TM22/16	JVP	22	16	5.5 x 9.5 x 2.5	.69	.55	.45	.35
545852	TAP226K016SCS	JVP	22	16	5.4 x 8.0 x 2.5	.69	.55	.45	.35

Continued on next page

\* JVP = Jameco ValuePro | ◆ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



JAMECO ValuePro

## Resin Dipped Solid Tantalum Capacitors (±10%) (Continued)

\* Web Code: VAE

Part No.	Product No.	*Mfr.	Value (µF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
545861	TAP226K020SCS	JVP	22	20	6.0 X 9.4 X 2.5	\$ .69	\$ .55	\$ .45	.39
94107	TM22/25	◆	22	25	8.5 x 13.0 x 3.2	1.59	1.35	1.09	.89
545879	TAP226K025SCS	JVP	22	25	6.0 x 9.4 x 2.5	1.75	1.49	1.25	.99
332101	TDR22/35	JVP	22	35	8.5 x 13 x 2.5	1.49	1.29	1.09	.95
545887	TAP226K035SCS	JVP	22	35	7.0 x 11.0 x 2.5	1.95	1.75	1.49	1.29
545991	TAP336K016SCS	JVP	33	16	6.0 x 9.4 x 2.5	1.35	1.15	.95	.75
546003	TAP336K020SCS	JVP	33	20	6.0 x 9.4 x 2.5	1.15	.99	.85	.75
33785	TM33/25	◆	33	25	8.5 x 13.0 x 4.7	1.75	1.49	1.25	.99
546020	TAP336K035SCS	JVP	33	35	8.2 x 12.5 x 2.5	2.49	2.25	1.95	1.75
546100	TAP476K010SCS	JVP	47	10	6.0 x 9.4 x 2.5	1.25	.99	.79	.65
94125	TM47/16	JVP	47	16	6.5 x 11.0 x 2.5	1.25	.99	.79	.65
94123	TM47/16	◆	47	16	5.2 x 8.2 x 2.5	1.49	1.25	.99	.79

Part No.	Product No.	*Mfr.	Value (µF)	Volt (V)	Size (mm)* D x H x L.S.	Pricing			
						1	10	100	500
546118	TAP476K016SCS	JVP	47	16	6.0 x 9.4 x 2.5	\$1.75	\$1.49	\$1.25	\$ .99
33822	TM47	◆	47	25	9.5 x 16.5 x 2.5	1.59	1.35	1.15	.99
546206	TAP686K006SCS	JVP	68	6.3	5.0 x 8.2 x 2.5	.79	.69	.59	.49
546222	TAP686K016SCS	JVP	68	16	7.0 x 11.0 x 2.5	1.95	1.75	1.49	1.25
33700	TM100/35	◆	100	6.3	8.5 x 13.0 x 4.7	1.35	1.15	.95	.79
33702	TM100	JVP	100	6.3	8.5 x 13.0 x 2.5	1.25	1.09	.99	.89
545668	TAP107K006SCS	JVP	100	6.3	6.0 x 9.4 x 2.5	1.55	1.35	1.15	.95
597450	TAP107K016SCS	JVP	100	16	7.0 x 11.0 x 2.5	2.75	2.49	2.25	1.95
545684	TAP107K020SCS	JVP	100	20	8.2 x 12.5 x 2.5	3.49	3.15	2.75	2.49
545772	TAP157K010CCS	JVP	150	10	7.0 x 11 x 2.5	2.49	2.25	1.95	1.75
545895	TAP227K010CCS	JVP	220	10	8.2 x 12.5 x 2.5	3.25	2.75	2.35	2.09

Note: Above case sizes may have ± tolerances

\* Capacitor dimensions and styles may vary

JAMECO ValuePro

## Ceramic Disc Capacitors (±5, ±10 or ±20%)

25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

\* Web Code: HBW

- Operating temp. range: +10°C to +85°C
- Cap. change over temp. range: +22 to -56%

- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.

\* Order in multiples of 10

Part No.	Product No.	*Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	1000	5000
332291	CD3.3/1000	JVP	3.3pF	1000	20	5	\$ .29	\$ .22	\$ .17	\$ .14	\$ .11
15333	DC10	◆	10pF	50	20	5	*	.06	.04	.032	.025
15335	DC10	JVP	10pF	50	20	5	*	.06	.04	.032	.025
332312	CD10/1000	JVP	10pF	1000	20	6	.29	.22	.17	.14	.11
332322	CD20/1000	JVP	20pF	1000	20	5	.29	.22	.17	.14	.11
15405	DC22	◆	22pF	50	20	6	*	.06	.04	.032	.025
15407	DC22	JVP	22pF	50	20	6	*	.07	.045	.035	.028
332217	CD33/50	JVP	33pF	50	20	5	*	.08	.06	.045	.035
1947010	DC33TR	◆	33pF	100	10	5	*	.06	.04	.025	.01
1947028	DC33ATR	◆	33pF	500	5	5	*	.07	.045	.035	.025
15512	DC47	JVP	47pF	50	20	5	*	.08	.06	.045	.039
1947036	DC47TR	◆	47pF	500	5	6	*	.08	.06	.04	.03
332347	CD47/1000	JVP	47pF	1000	20	5	.29	.22	.17	.14	.11
15341	DC100	◆	100pF	50	20	5	*	.06	.04	.032	.025
15343	DC100	JVP	100pF	50	20	5	*	.08	.06	.045	.039
1947044	DC100TR	◆	100pF	100	10	8	*	.06	.04	.025	.015
332363	CD120/1000	JVP	120pF	1000	20	5	*	.17	.14	.11	.09
1947052	DC150TR	◆	150pF	100	10	8	*	.05	.035	.02	.01
1947087	DC150ATR	◆	150pF	100	5	4	*	.06	.04	.025	.015
332371	CD150/1000	JVP	150pF	1000	20	5	.29	.22	.17	.14	.11
15413	DC220	◆	220pF	50	20	5	*	.06	.04	.025	.015
1947132	DC220TR	◆	220pF	50	5	8	*	.06	.04	.025	.015
1947159	DC220ATR	◆	220pF	100	5	7	*	.06	.04	.025	.015
1947239	DC220BTR	◆	220pF	500	10	10	*	.06	.04	.025	.015
332380	CD220/1000	JVP	220pF	1000	20	5	.29	.22	.17	.14	.11
15448	DC330	◆	330pF	50	20	5	*	.05	.03	.02	.015
1947301	DC330TR	◆	330pF	100	20	5	*	.06	.04	.025	.015
1947378	DC330ATR	◆	330pF	500	20	5	*	.07	.045	.03	.02
15528	DC470	◆	470pF	50	20	5	*	.07	.045	.035	.025
1947319	DC470TR	◆	470pF	100	20	5	*	.06	.04	.025	.015

TR at the end of Product Number are Tape and Reel

Part No.	Product No.	*Mfr.	Value	Volt (V)	Tol.	Dia. (mm)	Pricing				
							1	10	100	1000	5000
332401	CD470/1000	JVP	470pF	1000	20	5	\$ .29	\$ .22	\$ .17	\$ .14	\$ .11
332420	CD560/1000	JVP	560pF	1000	20	6	.29	.22	.17	.14	.11
15190	DC.001	◆	.001µF	50	20	6	*	.06	.04	.03	.02
15192	DC.001	JVP	.001µF	50	20	6	*	.07	.045	.035	.025
1947343	DC.001TR	◆	.001µF	100	20	4	*	.06	.04	.025	.015
1947394	DC.001ATR	◆	.001µF	500	20	4	*	.07	.045	.03	.018
1947415	DC.001BTR	◆	.001µF	500	10	7	*	.07	.045	.03	.018
332436	CD1000/1000	JVP	.001µF	1000	20	5	.32	.25	.19	.15	.12
1947327	DC.0022TR	◆	.0022µF	25	20	4	*	.06	.04	.025	.015
1947386	DC.0022ATR	◆	.0022µF	500	20	7	*	.07	.045	.035	.02
332443	CD2200/1000	JVP	.0022µF	1000	20	6	.32	.25	.19	.15	.10
1947407	DC.0033	◆	.0033µF	500	20	9	*	.07	.045	.035	.02
15211	DC.0047	◆	.0047µF	50	20	6	*	.07	.045	.035	.025
1947335	DC.0047TR	◆	.0047µF	100	20	5	*	.06	.04	.025	.015
15229	DC.01	◆	.01µF	50	20	6	*	.06	.04	.032	.025
15231	DC.01	JVP	.01µF	50	20	6	*	.07	.045	.035	.03
97375	DC.01/1K20	◆	.01µF	1000	20	12	.29	.22	.17	.14	.11
97377	DC.01/1K20	JVP	.01µF	1000	20	12	.35	.29	.22	.17	.14
332487	CD20000/1000	JVP	.02µF	1000	20	16	.55	.45	.35	.29	.22
15245	DC.022	◆	.022µF	50	20	8	*	.08	.06	.045	.039
1947351	DC.047B	◆	.047µF	25	20	7	*	.06	.04	.02	.015
15253	DC.047	◆	.047µF	50	20	8	*	.09	.07	.045	.035
15255	DC.047	JVP	.047µF	50	20	8	*	.10	.08	.06	.05
332507	CD50000/1000	JVP	.05µF	1000	20	16	.99	.79	.65	.49	.39
151116	DC.1/25	◆	.1µF	25	20	6	*	.11	.08	.06	.05
151118	DC.1/25	JVP	.1µF	25	20	6	*	.12	.09	.07	.055
15270	DC.1	◆	.1µF	50	20	8	.25	.19	.15	.12	.09
15272	DC.1	JVP	.1µF	50	20	8	.32	.25	.19	.15	.12
332516	CD100000/1000	JVP	.1µF	1000	20	21	1.49	1.25	1.09	.95	.79

TR at the end of Product Number are Tape and Reel

JAMECO ValuePro

## Axial Leaded Ceramic Capacitors

\* Order in multiples of 10

\* Web Code: ACC

Part No.	Product No.	*Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing			
							1	10	100	1000
546273	SA102A220JAA	JVP	22pF	200	NPO	5	*	\$ .12	\$ .09	\$ .07
546265	SA102A101JAA	JVP	100pF	200	NPO	5	*	.12	.09	.07
546281	SA105A102JAA	JVP	1000pF	50	NPO	5	*	.12	.09	.07
546249	SA101C102KAA	JVP	1000pF	100	X7R	10	*	.10	.08	.06
1069763	SA101C222KAA	AVX	2200pF	100	X7R	10	*	.12	.09	.07
546290	P10R103K5	JVP	0.01µF	50	X7R	10	.25	.19	.15	.12

\* AVX = AVX | CDE = Cornell Dubilier | JVP = Jameco ValuePro | ◆ Manufacturer Varies

Part No.	Product No.	*Mfr.	Value	Volt (V)	Temp Co-eff.	Tol.	Pricing			
							1	10	100	1000
546302	SA105E103MAA	JVP	0.01µF	50	Z5U	20	*	\$ .10	\$ .08	\$ .06
546257	SA101C103KAA	JVP	0.01µF	100	Z7R	100	*	.10	.08	.06
536542	P20R104K5	◆	0.1µF	50	X7R	10	*	.15	.12	.09
536534	P10U104M5	CDE	0.1µF	50	Z5U	20	*	.15	.12	.09
546345	SA305E105MAA	JVP	1.0µF	50	Z5U	20	*	.15	.12	.09

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Ceramic & Metallized Capacitors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ValuePro

## Monolithic Radial Ceramic Capacitors

### NPO (COG) Series (±5%)

Part No.	Product No.	*Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing (10 pc. min)			
						1	10	100	5000
332523	COG10/100	JVP	10pF	100	4.0 x 2.0 x 3.2 x 5.1	\$ .13	\$ .09	\$ .07	\$ .05
332541	COG22/100	JVP	22pF	100	3.6 x 2.3 x 3.6 x 2.5	.13	.09	.07	.05
2080358	RD15CG-240J	♦	24pF	50	4.0 x 2.0 x 3.6 x 2.5	.13	.09	.07	.05
2080331	RD15CG-270J	PDC	27pF	50	4.0 x 2.0 x 3.6 x 2.5	.19	.15	.09	.07
332559	COG33/100	JVP	33pF	100	3.6 x 2.3 x 3.6 x 2.5	.15	.11	.08	.06
2080323	RD15CG-390M	PDC	39pF	50	4.0 x 2.0 x 3.6 x 2.5	.13	.09	.07	.05
332567	COG47/100	JVP	47pF	100	3.8 x 2.0 x 3.3 x 2.5	.15	.11	.08	.06
332574	COG68/100	JVP	68pF	100	3.6 x 1.5 x 3.6 x 5.1	.17	.13	.09	.07
2080340	RD15CG-331J	PDC	330pF	50	4.0 x 2.0 x 3.6 x 2.5	.17	.13	.09	.07

### X7R Series (±10%)

Part No.	Product No.	*Mfr.	Value	Volt. (V)	Size (mm)* WxTxHxL.S.	Pricing			
						1	10	100	5000
332583	MOC100/100	JVP	100pF	100	5.0x5.0x3.0x2.5	* .14	* .11	* .08	* .06
332612	MOC470/100	JVP	470pF	100	5.0x5.0x3.0x2.5	* .15	* .12	* .09	* .07
544825	SR151C102KAA	JVP	1000pF	100	3.8x2.5x3.8x5.1	* .09	* .07	* .05	* .04
544833	SR151C103KAA	JVP	.01µF	100	3.8x2.5x3.8x5.1	* .10	* .07	* .05	* .035
597281	SR211C103KAA	JVP	.01µF	100	3.8x2.5x3.8x5.1	* .11	* .08	* .06	* .05
332647	MOC10000/100	JVP	.01µF	100	5.0x5.0x3.0x2.5	* .12	* .09	* .07	* .06
332655	MOC22000/100	JVP	.022µF	100	5.0x5.0x3.0x2.5	* .12	* .09	* .07	* .06
544892	SR211C223KAA	JVP	.022µF	100	3.8x2.5x3.8x5.1	* .14	* .10	* .08	* .06
544905	SR211C333KAA	JVP	.033µF	100	3.8x2.5x3.8x5.1	.25	.19	.15	.12
544913	SR211C473KAA	JVP	.047µF	100	3.8x2.5x3.8x5.1	.29	.22	.17	.14
544921	SR215C104KAA	JVP	.1µF	50	3.8x2.5x3.8x5.1	* .14	* .11	* .08	* .06
544884	SR211C104KAA	JVP	.1µF	100	3.8x2.5x3.8x5.1	* .15	* .12	* .09	* .08
332672	MOC100000/100	JVP	.1µF	100	5.0x5.0x3.0x2.5	* .15	* .12	* .09	* .08
544948	SR305C474KAA	JVP	.47µF	50	3.8x2.5x3.8x5.1	.45	.35	.29	.22

±20% Note: Above case sizes may have ± tolerances \*Capacitor dimensions and styles may vary

\*AVX Radial Ceramic Capacitors — Enter Web Code XDE

JAMECO ValuePro

## Ceramic Trimmer Capacitors

JAMECO EXCLUSIVE

### 5mm

- Working voltage: 200VDC • Withstand voltage: 400VDC
- Turning torque: 35~200 g-cm • Q Factor @ 1MHz: >200
- Operating temperature range: -30°C ~ +85°C
- Insulation resis.: >10MΩ minimum @ 250VDC

\*Web Code: PBZ

Part No.	Capacitance Range (pF)	Color Code	1	10	100	1000
136979	9.0-50.0	Green	\$ .49	\$ .39	\$ .29	\$ .22

### 8mm (.315")

- Turning torque: 40~200 g-cm • Withstand volt.: 550VDC
- Operating temp. range: -55°C ~ +85°C • Working volt.: 250VDC
- Insulation resis.: 10MΩ min. @ 250VDC • Q Factor @ 1MHz: >300

\*Web Code: PAT

Part No.	Capacitance Range (pF)	Color Code	1	10	100	1000
134818	3.5-13.0	Ivory	\$ .49	\$ .39	\$ .29	\$ .19
32839	4.0-34.0	Yellow	1.15	.99	.85	.69
2077554	5.0-25.0	Blue	.89	.75	.59	.49
32855	6.0-70	Nil	.99	.85	.69	.59
94449	8.5-100	Purple	.99	.85	.69	.59
94466	8.5-120	Nil	.99	.85	.69	.59

## Memory Back-Up Capacitors

### Applications:

- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
- Memory back-up of remote controllers

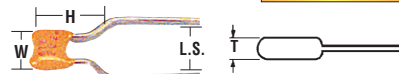
### Features:

- Small size vs. capacitance • Voltage: 5.5VDC, 8VDC

Part No.	Cross Ref. No.	*Mfr.	Value (F)	Size (mm) L x T x Dia.	1	10	100
2082409	MBC.047/8	♦	0.047	13.7x7.8x13.1	\$2.95	\$2.59	\$2.25
142949	MBC.22/5.5	JVP	0.22	11.8x6.4x12.8	3.95	3.49	2.95
142957	MBC1.0/5.5	♦	1.0	N/A x 7.4 x 20.8	4.25	3.75	3.25
227811	S5R5V105	♦	1.0	24.2 x 4.8 x 18.0	3.95	3.49	2.95

\* JVP = Jameco ValuePro | PDC = Prosperity Dielectric Co. | ♦ Manufacturer Varies

- Data processing
- Communications engineering
- Operating temp. range: -10°C to +85°C



\*Web Code: JBV

### Z5U Series (±20%)

\* Order in multiples of 10

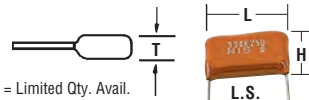
Part No.	Product No.	*Mfr.	Value	Volt. (V)	Size (mm)* W x T x H x L.S.	Pricing			
						1	10	100	1000
81543	MD10	JVP	10pF	50	3.5 x 2.0 x 3.0 x 2.5	* .07	* .06	* .05	
81533	MD22	♦	22pF	50	4.0 x 2.0 x 4.0 x 5.1	* .12	* .09	* .07	
81535	MD22	JVP	22pF	50	4.0 x 2.0 x 4.0 x 2.5	* .10	* .08	* .06	
81525	MD100	♦	100pF	50	3.3 x 2.0 x 3.0 x 2.5	* .12	* .09	* .07	
81517	MD.001	♦	.001µF	50	4.5 x 2.0 x 3.0 x 2.5	* .10	* .08	* .06	
138181	MD.022	♦	.0022µF	50	4.0 x 2.0 x 5.5 x 2.5	* .10	* .08	* .06	
25507	MD.01	♦	.01µF	50	3.5 x 2.0 x 3.0 x 2.5	* .12	* .09	* .07	
25509	MD.01	JVP	.01µF	50	3.5 x 2.0 x 3.0 x 2.5	* .09	* .06	* .05	
2080366	RD16ZU-153M	PDC	.015µF	50	3.7 x 1.8 x 3.0 x 5.1	* .08	* .06	* .04	
57621	MD.047	♦	.047µF	50	2.5 x 2.5 x 3.0 x 2.5	* .12	* .09	* .07	
25523	MD.1	♦	.1µF	50	6.0 x 2.0 x 4.0 x 5.1	* .08	* .06	* .045	
544868	SR205E104MAA	JVP	.1µF	50	4.0 x 2.6 x 3.8 x 2.5	* .10	* .07	* .05	
25525	MD.1	JVP	.1µF	50	3.4 x 2.2 x 3.6 x 5.1	* .11	* .08	* .06	
25540	MD.22	♦	.22µF	50	6.0 x 2.0 x 4.5 x 5.1	* .15	* .12	* .09	
25541	MD.22+	JVP	.22µF	50	6.0 x 2.0 x 4.5 x 2.5	.25	.19	.15	.12
138237	MD.33	♦	.33µF	50	6.0 x 2.0 x 8.0 x 5.1	* .14	* .11	* .08	
544930	SR215E334MAA	JVP	.33µF	50	3.8 x 2.5 x 3.8 x 5.1	* .15	* .12	* .09	
25558	MD.47	♦	.47µF	50	4.5 x 2.5 x 4.5 x 5.1	* .17	* .14	* .11	
25560	MD.47	JVP	.47µF	50	4.5 x 2.5 x 4.5 x 2.5	* .15	* .12	* .09	
81509	MD1	♦	1µF	50	6.0 x 3.0 x 7.0 x 5.1	.35	.29	.22	.17
544956	SR305E105MAA	JVP	1µF	50	3.8 x 2.5 x 3.8 x 5.1	.39	.32	.25	.19

Note: Above case sizes may have ± tolerances \*Capacitor dimensions and styles may vary

\*Prosperity Radial Ceramic Capacitors — Enter Web Code CMC

## Metallized Polyester Film Mylar Capacitors (±10%)

- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz) • Blue P/N = Limited Qty. Avail.
- Dielectric strength: 150% of rated volt. for 5 sec.



\* Order in multiples of 10

Part No.	Product No.	Value (µF)	Volt. (V)	Size (mm)* L x T x H x L.S.	Pricing			
					1	10	100	1000
26833	MY.001	.001	100	7.0 x 3.0 x 7.0 x 5.1	* .10	* .07	* .05	
26876	MY.0047	.0047	100	6.0 x 3.0 x 9.0 x 5.1	* .10	* .07	* .05	
1946164	MY.0068	.0068	100	5.5 x 2.5 x 10.0 x 5.1	* .08	* .06	* .04	
207829	MY.0068/220	.0068	220	18.0 x 5.5 x 10.0 x 15.2	* .10	* .07	* .05	
26884	MY.01	.01	100	6.0 x 3.0 x 7.0 x 5.1	* .15	* .12	* .09	
207837	MY.018/50	.018	50	6.1 x 2.6 x 11.3 x 5.1	* .05	* .035	* .025	
26905	MY.022	.022	100	6.0 x 3.0 x 10.0 x 5.1	* .15	* .12	* .09	
26921	MY.033	.033	100	8.0 x 4.0 x 11.0 x 16.1	* .15	* .12	* .09	
26930	MY.047	.047	100	8.0 x 4.0 x 12.0 x 5.1	.25	.19	.15	.12
1946172	MY.068	.068	100	8.6 x 4.0 x 11.0 x 7.6	* .17	* .14	* .11	
135562	MY.1/50	.1	50	14.0 x 6.0 x 12.0 x 5.1	* .17	* .14	* .11	
26956	MY.1	.1	100	12.5 x 5.0 x 9.5 x 7.6	.25	.19	.15	.12
93921	MY.1/250	.1	250	12.5 x 5.5 x 10 x 10.1	.29	.22	.17	.14
26972	MY.22	.22	100	12.5 x 5.5 x 10 x 7.6	.25	.19	.15	.12
1946181	MY.22SM	.22	100	12.5 x 5.0 x 8.5 x 10.1	.25	.19	.15	.12
93964	MY.33/250	.33	250	18.0 x 7.0 x 12.5 x 15.2	.32	.25	.19	.15
26999	MY.47	.47	100	18.0 x 6.0 x 11.5 x 16.1	.45	.35	.29	.22
27001	MY1	1.0	100	18.0 x 7.5 x 14.0 x 15.2	.55	.45	.35	.29
93981	MY1/250	1.0	250	26.0 x 9.0 x 16.0 x 15.2	.65	.49	.39	.32
93999	MY2/250	2.2	250	26.0 x 9.0 x 16.0 x 27.9	1.25	.99	.79	.65

±20% tolerance \*Capacitor dimensions and styles may vary on items with various manufacturers

Huge Blowout Sale on All SMT Capacitors — Enter Web Code: SMT Online for Complete Listing!

JAMECO ValuePro

## Motor Capacitors

- Operating temp.: -25°C to +85°C
- Insulation resistance: >300MΩ
- Metal or plastic shell and double welding sheet metal
- Quick connect



332697 332806

\*Web Code: MCS

### Motor Running Capacitors

Part No.	Cross Ref. No.	Value	Volt (V)	Size D x H (mm)	1	10	50
332806	MRC370V4	4μF	370	34 x 50	\$1.95	\$1.75	\$1.49
332814	MRC370V5	5μF	370	34 x 50	2.49	2.25	1.95
332822	MRC370V7R5	7.5μF	370	36 x 80	2.95	2.65	2.35
332831	MRC370V10	10μF	370	42 x 80	3.25	2.85	2.49
332865	MRC440V10	10μF	440	40 x 70	3.95	3.49	2.95
332849	MRC370V15	15μF	370	40 x 70	4.95	4.49	3.95

### Motor Starting Capacitors

Part No.	Cross Ref. No.	Value	Volt (V)	Size D x H (mm)	1	10	50
332697	MSC125V21	21μF	125	37 x 70	\$1.95	\$1.75	\$1.49
332777	MSC250V30	30μF	250	37 x 70	2.95	2.65	2.35
332785	MSC250V53	53μF	250	46 x 86	3.49	2.95	2.69
536585	PSU10835A*	108μF	250	46 x 86	9.49	8.49	8.09
332700	MSC125V124	124μF	125	37 x 70	2.25	1.95	1.75
332718	MSC125V161	161μF	125	37 x 70	2.25	1.95	1.79
332726	MSC125V189	189μF	125	37 x 70	2.49	2.25	2.09
332734	MSC125V216	216μF	125	37 x 86	2.95	2.65	2.39
332742	MSC125V270	270μF	125	37 x 86	3.25	2.85	2.69
332751	MSC125V590	590μF	125	46 x 111	5.25	4.95	4.75

\* Mfr. is Cornell Dubilier

## Panasonic® Metallized Film Capacitors (±5%)

### V Series – Stacked

- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

\*Web Code: TAB

Order in multiples of 10

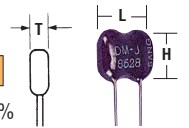
Part No.	Mfr. Part No.	Value (μF)	Voltage	Dimensions (mm) W x H x Th. x L.S.	10	100	500
920510	ECQ-V1H104JL	.1	50	7.3 x 4 x 5 x 5	\$1.15	\$1.12	\$0.99
920595	ECQ-V1H474JL	.47	50	7.3 x 6 x 7.3 x 5	.22	.17	.14

## Dipped Silver Mica Capacitors (±5%)

### Metallized Polyester Film

- Case type: DM15
- Lead space: 0.23"
- Operating temp. range: -55°C to +125°C
- Tolerance: ±5%

\*Web Code: HAB



Part No.	Product No.	Value	Volt. (V)	Size (mm) L x T x H*	1	10	100	1000
15991	DM100	10pF	500	11 x 4 x 9	\$1.59	\$1.49	\$1.39	\$1.32
16037	DM220	22pF	500	11 x 4 x 9	.59	.49	.39	.32
16070	DM330	33pF	500	11 x 4 x 9	.55	.45	.35	.29
16096	DM470	47pF	500	11 x 4 x 9	.55	.45	.35	.29
16002	DM101	100pF	500	11 x 4 x 9	.65	.55	.45	.35
16088	DM331	330pF	500	11 x 4 x 9	.95	.75	.59	.49
16109	DM471	470pF	500	11 x 4 x 9	1.09	.89	.69	.55
16011	DM102	1000pF	100	11 x 4 x 9	1.35	1.15	.95	.79

\* Capacitor dimensions and styles may vary

## Expanded Offering of Thousands of Prosperity SMT Capacitors at [www.Jameco.com](http://www.Jameco.com)

### SMT Capacitors

- Temperature range: -55°C to 125°C
- General purpose

#### MA Series:

\*MA0603 – 1 values — Web Code: ZAJ

\*MA0805 – 13 values — Web Code: ZAK

\*MA1206 – 13 values — Web Code: ZAL

\*MA1210 – 1 value — Web Code: ZAM

\*MA1812 – 1 value — Web Code: ZAN

Qty.	10	100	1000	4000
MA0603	.05	\$0.03	\$0.02	\$0.01
MA0805	.15	.12	.07	.05
MA1206	.10	.08	.06	.05
MA1210	.05	.03	.02	.01
MA1812	.05	.03	.02	.01
RD15	.13	.09	.07	.05
RD16	.08	.06	.04	.02

#### RD Series:

\*RD15 – 4 values — Web Code: ZAO

\*RD16 – 1 value — Web Code: ZAP

For Passive Component Testers See Page 147.

## SMD Capacitors

### Aluminum Electrolytic Capacitors

Operating Temp. Range: -55°C to +105°C

\* Order in multiples of 10

Leakage current (20°C) after 2 minutes .01CV or 3μA

Part No.	Nichicon Cross Ref No.	Value (μF)	Voltage (V)	Dia. (mm)	1	10	100	500
610431	UWT1H0R1MCL1GB	0.1	50	4.0	*	\$1.15	\$1.12	\$0.99
610423	UWT1H010MCL2GB	1.0	50	4.0	*	.15	.12	.09
608631	UUD1H010MCL1GS	1.0†	50	4.0	*	.22	.17	.14
610634	UWT1V2R2MCL2GB	2.2	35	4.0	*	.15	.12	.09
608665	UUD1H2R2MCL1GS	2.2†	50	4.0	*	.22	.17	.14
608681	UUD1H3R3MCL1GS	3.3†	50	4.0	*	.19	.15	.12
608788	UUD1V4R7MCL1GS	4.7†	35	4.0	*	.19	.15	.12
608702	UUD1H4R7MCL1GS	4.7†	50	4.0	*	.19	.15	.12
115351	RV2-166V100MR*	10	16	4.0	*	.15	.12	.09
610108	UWT0G220MCL1GB	22	4.0	4.0	*	.09	.07	.05
608489	UUD1A220MCL1GS	22†	10	4.0	*	.19	.15	.12
610239	UWT1A220MCL1GB	22	10	5.0	*	.15	.12	.09
610474	UWT1H220MCL1GB	22	50	6.3	*	.22	.17	.14
610183	UWT0J330MCL1GB	33	6.3	4.0	*	.15	.12	.09
608585	UUD1E330MCL1GS	33†	25	6.3	*	.22	.17	.14
610335	UWT1C470MCL1GB	47	16	6.3	*	.15	.12	.09

\* Operating temperature: -40°C to +85°C † Low impedance

## Resin Molded Solid Tantalum Chip Capacitors (±20%)

\* Order in multiples of 10

Part No.	*Mfr.	Capacitance	Size	Volt.	1	10	100	500
86933	JVP	1μF	A 16	*	\$1.12	\$0.7	\$0.5	
87020	+	10μF	B 10	*	.12	.09	.07	
87038	+	10μF	C 16	*	.19	.15	.12	
87101	JVP	47μF	D 16	.35	.29	.23	.21	
87118	+	100μF	D 10	.49	.39	.29	.25	
853249	AVX	470μF	E 10	1.95	1.75	1.49	1.25	

### Case Size (Dimensions in mm)

EIA Case Code	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0
E (7343-43)	7.3	4.3	4.1	1.3	2.4	1.0



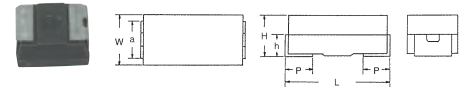
\*Web Code: BCE

Blue Part No. = Limited Quantity Available

\* Order in multiples of 10

Part No.	Nichicon Cross Ref No.	Value (μF)	Voltage (V)	Dia. (mm)	1	10	100	500
610386	UUD1E470MCL1GB	47	25	6.3	\$2.29	\$2.22	\$1.7	\$1.14
608796	UUD1V680MCL1GS	68†	35	6.3	.39	.35	.25	.19
608711	UUD1V680MCL1GS	68†	50	8.0	.39	.35	.25	.19
610765	UWX1A101MCL1GB	100	10	6.3	*	.09	.07	.05
608462	UUD1A101MCL1GS	100†	10	6.3	.32	.25	.19	.15
608569	UUD1E101MCL1GS	100†	25	6.3	.35	.29	.22	.17
608737	UUD1V101MCL1GB	100†	35	8.0	.29	.22	.17	.12
610301	UWT1C221MCL1GB	220	16	6.3	*	.22	.17	.14
610482	UWT1H221MCL1GS	220	50	10.0	.49	.45	.39	.29
610378	UWT1E331MCL1GS	330	25	8.0	.39	.35	.29	.25
2019961	UUR1E331MCL1GS	330	25	10.0	.29	.22	.17	.14
608614	UUD1E471MCL1GS	470†	25	10.0	.49	.45	.35	.29
610221	UWT0J681MCL1GS	680	6.3	8.0	.39	.35	.29	.25
608471	UUD1A102MCL1GS	1000†	10	10.0	.49	.45	.35	.29
192989	SE1000/16	1000	16	10.0	.39	.32	.25	.22
610159	UUD0J152MCL1GS	1500†	6.3	10.0	.49	.39	.32	.25

\*Web Code: WAE



\* JVP = Jameco ValuePro | AVX = AVX | + Manufacturer Varies

Resin Molded Solid Tantalum Chip Capacitors continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



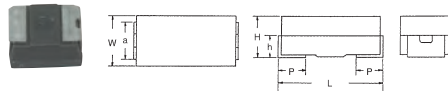
# SMD Molded Tantalum & Ceramic Chip Capacitors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ValuePro

## Resin Molded Solid Tantalum Chip Capacitors (±10%)

\* Web Code: WAE



### Case Size (Dimensions in mm)

EIA Case Code	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0
E (7343-43)	7.3	4.3	4.1	1.3	2.4	1.0

\* Order in multiples of 10

Part No.	Value (µF)	Case	Size	Volt.	1	10	100	500
	*Low ESR							
544999	0.1µF	A	20	*	\$0.10	\$0.06	\$0.05	
544964	0.1µF	A	35	*	.12	.07	.08	
544972	0.1µF	A	50	*	.12	.09	.06	
544981	1µF	A	16	*	.12	.07	.06	
545001	1µF	A	25	*	.12	.07	.06	
597290	1µF	A	35	*	.15	.12	.10	
545043	2.2µF	A	16	*	.12	.07	.06	
545051	3.3µF	A	16	*	.12	.07	.06	
545060	3.3µF	A	20	*	.19	.13	.10	
545078	4.7µF	A	10	*	.12	.07	.06	

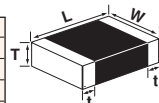
\* Order in multiples of 10

Part No.	Value (µF)	Case	Size	Volt.	1	10	100	500
	*Low ESR							
597329	4.7µF	A	10	*	\$0.19	\$0.17	\$0.15	
545086	6.8µF	A	10	*	.19	.17	.15	
545027	10µF	A	6.3	*	.12	.07	.06	
597311	10µF	A	6.3	*	.19	.17	.15	
597302	10µF	A	10	*	.12	.07	.06	
545115	15µF	A	10	*	.19	.17	.15	
545131	1µF	B	35	*	.15	.12	.10	
545158	2.2µF	B	35	*	.19	.12	.10	
545174	4.7µF	B	16	*	.15	.09	.07	
545140	10µF	B	16	*	.19	.13	.07	
597337	10µF	B	16	*	.29	.25	.19	.15
545166	22µF	B	16	*	.25	.21	.15	.13
545203	2.2µF	B	10	*	.39	.35	.29	.25
545254	4.7µF	C	35	*	.19	.12	.10	
545262	3.3µF	C	35	*	.29	.25	.19	.16
545220	10µF	C	20	*	.25	.19	.15	.12
545289	10µF	C	25	*	.25	.19	.16	.15
545238	10µF	C	35	*	.45	.39	.29	.25
545300	22µF	C	16	*	.27	.22	.16	.14
545271	47µF	C	16	*	.29	.25	.19	.16
597353	47µF	C	16	*	.49	.45	.39	.35

Part No.	Value (µF)	Case	Size	Volt.	1	10	100	500
	*Low ESR							
545297	100µF	C	10	*	\$0.49	\$0.45	\$0.35	\$0.29
545385	4.7µF	D	35	*	.49	.45	.39	.35
545414	6.8µF	D	50	*	.49	.45	.39	.35
545326	10µF	D	35	*	.39	.35	.25	.21
545334	15µF	D	35	*	.45	.39	.29	.25
597388	15µF	D	35	*	.49	.45	.39	.35
545342	22µF	D	25	*	.39	.35	.25	.21
597396	22µF	D	25	*	.49	.45	.39	.35
545351	22µF	D	35	*	1.15	.99	.89	.79
597433	22µF	D	35	*	1.25	1.09	.99	.89
597409	33µF	D	20	*	.49	.45	.39	.35
545545	33µF	D	25	*	1.25	1.09	.99	.89
545393	47µF	D	16	*	.39	.35	.25	.21
597417	47µF	D	16	*	.49	.45	.39	.35
545406	47µF	D	25	*	.89	.79	.65	.59
545553	68µF	D	20	*	1.25	1.09	.99	.89
545422	100µF	D	10	*	.45	.35	.29	.25
545473	150µF	D	10	*	.69	.65	.49	.45
545369	220µF	D	10	*	.89	.75	.59	.55
597441	220µF	D	10	*	1.09	.99	.89	.79
597425	100µF	E	16	*	1.25	.99	.75	.69

### SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61



\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
646135	+	0402	47pF	50	5	NPO	*	\$0.05	\$0.03	\$0.02
646178	+	0402	100pF	50	5	NPO	*	.06	.045	.03
543742	JVP	0402	2200pF	50	10	NPO	*	.07	.06	.045
543777	JVP	0402	0.1µF	16	+80/-20	Y5V	*	.09	.07	.05
646910	+	0603	100pF	50	5	NPO	*	.06	.05	.04
544008	JVP	0603	330pF	50	5	NPO	*	.08	.06	.045
649483	+	0603	1000pF	50	10	X7R	*	.05	.03	.02
649598	+	0603	8200pF	50	10	X7R	*	.07	.05	.035
735322	AVX	0603	0.01µF	50	5	X7R	*	.08	.06	.045
920042	PAN	0603	0.1µF	25	+80/-20	Y5V	*	.05	.025	.02
1929031	AVX	0603	0.1µF	25	10	X7R	*	.12	.09	.06
649766	+	0603	2.2µF	6.3	10	X5R	*	.15	.12	.09
649774	+	0603	4.7µF	6.3	10	X5R	.25	.19	.15	.12
650020	+	0805	27pF	50	5	NPO	*	.05	.03	.02
736026	AVX	0805	30pF	50	5	NPO	*	.07	.06	.05
650097	+	0805	100pF	50	5	NPO	*	.05	.03	.02
650126	+	0805	180pF	50	5	NPO	*	.06	.045	.035
1566882	+	0805	220pF	100	5	NPO	*	.07	.06	.05
650193	+	0805	680pF	50	5	NPO	*	.06	.05	.03
544323	JVP	0805	1000pF	50	10	X7R	*	.05	.04	.03
2079541	PDC	0805	1200pF	50	5	NPO	*	.15	.12	.07
544278	+	0805	2200pF	50	5	NPO	*	.15	.12	.09
544331	JVP	0805	0.01µF	50	10	X7R	*	.05	.04	.03
87372	JVP	0805	0.1µF	25	10	X7R	*	.05	.03	.02
544340	JVP	0805	0.1µF	50	10	X7R	*	.05	.03	.02
87177	JVP	0805	0.1µF	50	20	Z5U	*	.05	.03	.02
650484	+	0805	0.33µF	25	10	X5R	.25	.19	.15	.12
650492	+	0805	0.47µF	25	10	X5R	*	.06	.05	.04
650687	+	0805	1.0µF	16	+80/-20	Y5V	*	.12	.09	.07
650505	+	0805	1.0µF	25	10	X5R	.25	.19	.15	.12

## Multilayer Ceramic Chip Capacitors

\* Web Code: MCD

\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
544489	+	0805	2.2µF	10	10	X5R	\$0.25	\$0.19	\$0.15	\$0.12
650521	+	0805	2.2µF	16	10	X5R	.25	.19	.15	.12
1858990	MUR	0805	2.2µF	25	10	X7R	.25	.19	.15	.12
650556	+	0805	3.3µF	10	10	X5R	*	.17	.14	.11
544420	JVP	0805	4.7µF	6.3	10	X5R	*	.14	.11	.09
650581	+	0805	10µF	6.3	10	X5R	*	.13	.10	.08
920157	PAN	0805	10µF	10	+80/-20	F	*	.15	.12	.10
1858797	MUR	0805	10µF	16	+80/-20	Y5V	*	.12	.09	.07
544497	JVP	1206	10pF	100	5	NPO	*	.12	.09	.07
544526	JVP	1206	15pF	100	5	NPO	*	.12	.09	.07
544534	JVP	1206	22pF	100	5	NPO	*	.12	.09	.07
544542	JVP	1206	33pF	100	5	NPO	*	.12	.09	.07
544569	JVP	1206	47pF	100	5	NPO	*	.15	.12	.09
650880	+	1206	68pF	50	5	NPO	*	.12	.09	.07
544500	JVP	1206	100pF	100	5	NPO	*	.06	.05	.04
544551	JVP	1206	330pF	100	5	NPO	*	.10	.08	.06
544577	JVP	1206	680pF	100	5	NPO	*	.15	.12	.09
2079795	PDC	1206	1000pF	50	±20	NPO	*	.10	.08	.06
544681	JVP	1206	1000pF	50	5	NPO	*	.12	.09	.07
544518	JVP	1206	1000pF	100	5	NPO	*	.15	.12	.09
651057	+	1206	1800pF	50	5	NPO	*	.15	.12	.09
544690	JVP	1206	2200pF	50	5	NPO	*	.15	.12	.09
651209	+	1206	4700pF	50	10	X7R	*	.09	.07	.05
651102	+	1206	4700pF	50	5	NPO	.25	.19	.15	.12
651111	+	1206	5600pF	50	5	NPO	.25	.19	.15	.12
651129	+	1206	0.01µF	25	5	NPO	.25	.19	.15	.12
87329	+	1206	0.01µF	50	10	X7R	*	.06	.045	.03
87388	+	1206	0.1µF	50	10	X7R	*	.09	.07	.06
651541	+	1206	0.1µF	50	+80/-20	Y5V	*	.12	.09	.07
544606	JVP	1206	0.1µF	100	10	X7R	*	.12	.09	.07
544711	JVP	1206	0.22µF	50	10	X7R	*	.12	.09	.07
651399	+	1206	0.27µF	50	10	X7R	*	.12	.09	.07
544729	JVP	1206	0.33µF	50	10	X7R	*	.17	.14	.11
544673	JVP	1206	0.47µF	25	10	X7R	*	.17	.14	.11
651410	+	1206	0.47µF	50	10	X7R	*	.19	.15	.12
87222	JVP	1206	0.47µF	50	20	Z5U	.29	.22	.17	.14

Multilayer Ceramic Chip Capacitors continued on next page

\* AVX = AVX Corp. | JVP = Jameco ValuePro | MUR = Murata Electronics | PAN = Panasonic | PDC = Prosperity | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Multilayer Ceramic Chip Capacitors (Continued)

★ Web Code: MCD

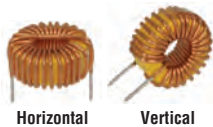
\* Order in multiples of 10

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
651428	◆	1206	1.0µF	25	10	X7R	* .15	.12	.07	
651479	◆	1206	2.2µF	16	10	X5R	* .13	.10	.07	
651452	◆	1206	2.2µF	25	10	X5R	* .15	.12	.09	
651508	◆	1206	4.7µF	10	10	X5R	.25	.19	.15	.12
651487	◆	1206	4.7µF	16	10	X5R	.25	.19	.15	.12
544745	JVP	1206	4.7µF	16	+80/-20	Y5V	.25	.19	.15	.12
651461	◆	1206	4.7µF	25	10	X5R	.29	.22	.17	.14
651532	◆	1206	10µF	6.3	10	X5R	.39	.32	.25	.19
651516	◆	1206	10µF	10	10	X5R	.39	.32	.25	.19
651495	◆	1206	10µF	16	10	X5R	.49	.39	.29	.22
651524	◆	1206	22µF	6.3	10	X5R	.65	.49	.39	.32
651612	◆	1210	0.1µF	50	10	X7R	* .15	.12	.09	
544761	JVP	1210	0.1µF	100	10	X7R	* .15	.12	.09	
544788	JVP	1210	0.22µF	50	10	X7R	* .15	.12	.09	
651647	◆	1210	0.33µF	50	10	X7R	.25	.19	.15	.12
651655	◆	1210	0.47µF	50	10	X7R	.25	.19	.15	.12

Part No.	*Mfr.	Case	Value	Volt.	Tolerance	Temp.	1	10	100	1000
651663	◆	1210	1.0µF	50	10	X7R	\$.39	\$.32	\$.25	\$.19
651671	◆	1210	2.2µF	25	10	X7R	.39	.32	.25	.19
651680	◆	1210	4.7µF	16	10	X7R	.49	.39	.32	.25
651701	◆	1210	4.7µF	25	10	X7R	.45	.35	.29	.25
651698	◆	1210	10µF	10	10	X7R	.49	.39	.32	.25
651786	◆	1210	10µF	10	10	X5R	.75	.59	.45	.35
651735	◆	1210	10µF	16	10	X5R	.49	.39	.29	.22
651719	◆	1210	10µF	25	10	X5R	.59	.49	.39	.32
651751	◆	1210	22µF	6.3	10	X5R	.79	.65	.49	.42
651794	◆	1210	22µF	10	10	X5R	.79	.65	.49	.42
651743	◆	1210	22µF	16	10	X5R	.85	.69	.55	.45
651760	◆	1210	47µF	6.3	10	X5R	1.49	1.29	1.09	.89
651778	◆	1210	100µF	6.3	20	X5R	1.95	1.75	1.49	1.25
651831	◆	1812	1µF	50	10	X5R	.32	.25	.19	.17
651858	◆	1812	22µF	10	10	X5R	.95	.75	.59	.45

JAMECO ValuePro

- Low radiation
- Low core loss
- V = vertical mount;  
H = horizontal mount
- Operating temperature: -55°C to +105°C
- High current capacity
- DC - DC converter, EMI filter applications
- For complete specs see datasheets, [www.Jameco.com](http://www.Jameco.com)



## High-Current Toroid Inductors

★ Web Code: KBY

### J. W. Miller 2200 Series Value Equivalents

Qty.	1	10	100	500
Price	\$1.49	\$1.19	\$.89	\$ .69

Part No.	Cross Ref. No.	L (µH) @ 1kHz
371021	2201-H	10
371274	2202-V	12
371282	2203-V	15
371047	2203-H	15
371303	2205-V	22
371063	2205-H	22
371311	2206-V	27
371071	2206-H	27
371320	2207-V	33
371080	2207-H	33
371338	2208-V	39
371098	2208-H	39
371346	2209-V	47
371101	2209-H	47
371119	2210-H	56
371354	2210-V	56
371362	2211-V	68
371127	2211-H	68
371371	2212-V	100
371135	2212-H	100
371389	2213-V	120
371143	2213-H	120

Part No.	Cross Ref. No.	L (µH) @ 1kHz
371397	2214-V	150
371151	2214-H	150
371400	2215-V	180
371160	2215-H	180
371426	2217-V	270
371186	2217-H	270
371434	2218-V	330
371194	2218-H	330
371442	2219-V	390
371207	2219-H	390
371451	2220-V	470
371215	2220-H	470
371469	2221-V	560
371223	2221-H	560
371477	2222-V	680
371231	2222-H	680
371485	2223-V	820
371240	2223-H	820
371493	2224-V	1000
371258	2224-H	1000

### J. W. Miller 2300 Series Value Equivalents

Qty.	1	10	100	500
Price	\$1.75	\$1.39	\$1.09	\$ .79

Part No.	Cross Ref. No.	L (µH) @ 1kHz
386901	2301-V	10
386361	2301-H	10
386935	2302-V	12
386396	2302-H	12
386951	2303-V	15
386425	2303-H	15
386978	2304-V	18
387006	2305-V	22
386468	2305-H	22
387022	2306-V	27
386484	2306-H	27
386505	2307-H	33
387065	2308-V	39
386521	2308-H	39
387090	2309-V	47
386548	2309-H	47
387111	2310-V	56
386564	2310-H	56
387137	2311-V	68
386581	2311-H	68
386601	2312-H	100

Part No.	Cross Ref. No.	L (µH) @ 1kHz
387188	2313-V	120
386636	2313-H	120
387209	2314-V	150
386652	2314-H	150
387233	2315-V	180
386679	2315-H	180
387268	2316-V	220
386695	2316-H	220
387284	2317-V	270
386724	2317-H	270
387330	2319-V	390
386767	2319-H	390
387364	2320-V	470
386783	2320-H	470
387381	2321-V	560
386812	2321-H	560
387410	2322-V	680
387436	2323-V	820
386855	2323-H	820
388041	2324-V	1000
386880	2324-H	1000

### J. W. Miller 2100 Series Value Equivalents

Qty.	1	10	100	500
Price	\$1.25	\$.99	\$.75	\$.59

Part No.	Cross Ref. No.	L (µH) @ 1kHz
371741	2101-V	10
371506	2101-H	10
371750	2102-V	12
371514	2102-H	12
371769	2103-V	15
371522	2103-H	15
371776	2104-V	18
371531	2104-H	18
371784	2105-V	22
371549	2105-H	22
371792	2106-V	27
371557	2106-H	27
371805	2107-V	33
371565	2107-H	33
371813	2108-V	39
371573	2108-H	39
371822	2109-V	47
371581	2109-H	47
371830	2110-V	56
371848	2111-V	68
371602	2111-H	68
371856	2112-V	100

Part No.	Cross Ref. No.	L (µH) @ 1kHz
371611	2112-H	100
371864	2113-V	120
371872	2114-V	150
371881	2115-V	180
371899	2116-V	220
371653	2116-H	220
371901	2117-V	270
371661	2117-H	270
371670	2118-H	330
371928	2119-V	390
371688	2119-H	390
371936	2120-V	470
371696	2120-H	470
371944	2121-V	560
371709	2121-H	560
371952	2122-V	680
371717	2122-H	680
371961	2123-V	820
371725	2123-H	820
371979	2124-V	1000
371733	2124-H	1000

TRIAD

## Inductor

- DC current: 5.5A • DCR max.: 0.049Ω
- Inductance: 4.4mH ±10%



Part No.	Product No.	1	10	100	500
627479	CME375-1	\$7.95	\$7.49	\$6.95	\$6.49

muRata

## 1206 Chip Ferrite Beads

### For EMI Filtering

- 26Ω Impedance ±25% @ 100MHz
- Operating temp: -55° to 125°C
- DC resistance: 0.05Ω

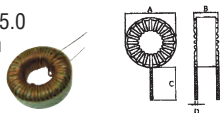


Order in multiples of 10

Part No.	Mfr.	Part No.	Current	1	10	100	500
1845371	BLM31AJ260SN1	500mA	..	\$ .15	\$.12	\$.09	

### J. W. Miller 5700 Series Value Equivalents

- Size: A = 22.22mm max.;  
B = 11.09mm max. C = 15.0 ±1.0mm; D = 1.2±0.5mm
- High current capacity
- Low radiation
- Low core loss
- See page 129 for EMI suppression cores



Qty.	1	10	100	500
Price	\$1.95	\$1.59	\$1.25	\$.95

Part No.	Cross Ref. No.	L (µH) @ 1kHz
208259	5701	10
208266	5702	25
208311	5711	50
208303	5707	75

Part No.	Cross Ref. No.	L (µH) @ 1kHz
208274	5703	125
208320	5712	150
208283	5704	275
208292	5705	450

JAMECO ValuePro

## Chip Inductors (SMD)

- Ceramic core, wire wound for superior reliability
- High self-resonant frequency
- Stable electrical characteristics
- Flat top surface for automated pick and place

PM0805/  
PM1008



### PM0805 Series Equivalents

Qty.	1	10	100	500
Price	\$.25	\$.19	\$.17	\$.15

Part No.	Cross Ref. No.	L (nH)
663592	0805-2N2M	2.2
663605	0805-3N3M	3.3
663613	0805-6N8M	6.8
663621	0805-8N2M	8.2
663630	0805-12NM	12
663648	0805-18NM	18
663656	0805-27NM	27

Part No.	Cross Ref. No.	L (nH)
663664	0805-33NM	33
663672	0805-39NM	39
663681	0805-47NM	47
663699	0805-56NK	56
663701	0805-68NK	68
663710	0805-82NK	82

Continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

JAMECO ValuePro

## Chip Inductors (SMD) (Continued)

### PM1008 Series Equivalents

Qty.	1	10	100	500
Price	\$ .25	\$ .19	\$ .17	\$ .15

Part No.	Cross Ref. No.	L (nH)	Part No.	Cross Ref. No.	L (nH)
663736	1008-10NM	10	663867	1008-R12K	120
663744	1008-12NM	12	663875	1008-R15K	150
663752	1008-15NM	15	663883	1008-R18K	180
663761	1008-18NM	18	663891	1008-R22K	220
663779	1008-22NM	22	663904	1008-R27K	270
663787	1008-27NM	27	663912	1008-R33K	330
663795	1008-33NM	33	663921	1008-R39K	390
663808	1008-39NM	39	663939	1008-R27K	2700
663816	1008-47NM	47	663947	1008-3R3K	3300
663824	1008-56NK	56	663955	1008-3R8K	3900
663832	1008-68NK	68	663963	1008-4R7K	4700
663841	1008-82NK	82			

### PM1210 Series Equivalents

Qty.	1	10	100	500
Price	\$ .25	\$ .19	\$ .17	\$ .15

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
663971	1210-1R0J	1.0	664122	1210-1R0J	18
663980	1210-1R2J	1.2	664131	1210-220J	22
663998	1210-1R5J	1.5	664149	1210-270J	27
664000	1210-1R8J	1.8	664157	1210-330J	33
664018	1210-2R2J	2.2	664165	1210-390J	39
664026	1210-2R7J	2.7	664173	1210-470J	47
664034	1210-3R3J	3.3	664181	1210-560J	56
664042	1210-3R9J	3.9	664190	1210-680J	68
664051	1210-4R7J	4.7	664202	1210-820J	82
664069	1210-5R6J	5.6	664211	1210-101J	100
664077	1210-6R8J	6.8	664229	1210-121J	120
664085	1210-8R2J	8.2	664237	1210-151J	150
664093	1210-100J	10	664245	1210-181J	180
664106	1210-120J	12	664253	1210-221J	220
664114	1210-150J	15			

### PM1812 Series Equivalents

Qty.	1	10	100	500
Price	\$ .29	\$ .25	\$ .19	\$ .17

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
643014	1812-R10K	0.10	643276	1812-150J	15
643022	1812-R12K	0.12	643284	1812-180J	18
643031	1812-R15K	0.15	643292	1812-220J	22
643049	1812-R18K	0.18	643305	1812-270J	27
643057	1812-R22K	0.22	643313	1812-330J	33
643065	1812-R27K	0.27	643321	1812-390J	39
643073	1812-R33K	0.33	643330	1812-470J	47
643081	1812-R39K	0.39	643348	1812-560J	56
643090	1812-R47K	0.47	643356	1812-680J	68
643102	1812-R56K	0.56	643364	1812-820J	82
643111	1812-R68K	0.68	643372	1812-101J	100
643129	1812-R82K	0.82	643381	1812-121J	120
643153	1812-1R5J	1.5	643399	1812-151J	150
643161	1812-1R8J	1.8	643401	1812-181J	180
643188	1812-2R7J	2.7	643410	1812-221J	220
643196	1812-3R3J	3.3	643436	1812-331J	330
643209	1812-3R9J	3.9	643444	1812-391J	390
643217	1812-4R7J	4.7	643452	1812-471J	470
643225	1812-5R6J	5.6	643461	1812-561J	560
1864812	1812-6R85J	6.8	643479	1812-681J	680
643241	1812-8R2J	8.2	643487	1812-821J	820
643268	1812-120J	12	643495	1812-102J	1000

\* Murata

JAMECO ValuePro

## Epoxy Conformal Coated RF Chokes

- Operating temp.: -55°C to +105°C
- Dielectric strength: 500Vrms
- Color bands identification
- Low DCR
- Low cost

\* Web Code: WBG

### J. W. Miller 77F Series Equivalents

- High current and self-resonant frequency
- Overall length: 2.41"
- Body length: 0.41"
- Lead length: 1.0"
- Body dia.: 0.157"

\* Order in multiples of 10

Qty.	10	100	500
Price	\$ .09	\$ .07	\$ .05

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
371995	77F6R8K*	6.8	372058	77F101J	100
372007	77F100K*	10	372066	77F221J	220
372015	77F270K*	27	372074	77F331J	330
372023	77F330J	33	372082	77F391J	390
372031	77F470J	47	372091	77F102J	1000
372040	77F820J	82			

\* L (μH) ±10%

### J. W. Miller 78F Series Equivalents

- High Q and self-resonant frequency
- Overall length: 2.28"
- Body diameter: 0.11"
- Lead length: 1.0"
- Body length: 0.28"

\* Order in multiples of 10

Qty. 1	10	100	500
Price	\$ .09	\$ .07	\$ .05

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
372103	78F6R8K*	0.68	372197	78F220J	22
372111	78F1R0K*	1.0	372200	78F270J	27
372120	78F1R8K*	1.8	372218	78F330J	33
372138	78F2R7K*	2.7	372226	78F390J	39
372146	78F3R3J	3.3	372234	78F470K	47
372154	78F4R7J	4.7	372242	78F101J	100
372162	78F8R2J	8.2	372251	78F121J	120
372171	78F100J	10	372269	78F221J	220
372189	78F120J	12	372277	78F471J	470

## Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%

\* Web Code: WBG

\* Order in multiples of 10

Qty.	10	100	500
Price	\$ .11	\$ .09	\$ .07

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
208143	CEC-100J	10	208207	CEC-221J	220
208151	CEC-270J	27	208215	CEC-331J	330
208160	CEC-330J	33	208223	CEC-471J	470
208186	CEC-470J	47	208231	CEC-821J	820
208194	CEC-101J	100	208240	CEC-102J	1000

JAMECO ValuePro

## Conformal Coated RF Chokes

### J. W. Miller 5300 Series Value Equivalents

- High current & self-resonant frequency
- Epoxy coated to protect winding from harsh environments
- Low DCR
- Low cost

\* Web Code: MBY

Qty.	1	10	100	500
Price	\$ .79	\$ .69	\$ .59	\$ .49

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
644332	5300-03J	1.5	642476	5300-19J	33
644341	5300-10J	5.6	642492	5300-25J	100
644367	5300-13J	10	642530	5300-33J	470
644375	5300-17J	22			

JAMECO ValuePro

## High Current Axial RF Chokes

- High current capacity
- Ferrite bobbin core
- Test frequency: 1kHz
- Low DCR

JAMECO EXCLUSIVE

\* Web Code: BCG

### J. W. Miller 5800 Series Value Equivalents

Qty.	1	10	100	500
Price	\$ .85	\$ .69	\$ .55	\$ .39

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
642548	5800-3R9J	3.9	642652	5800-271J	270
642556	5800-8R2J	8.2	642661	5800-331J	330
642564	5800-100J	10	642679	5800-391J	390
642572	5800-470J	47	642687	5800-471J	470
642581	5800-560J	56	642695	5800-102J	1000
642599	5800-820J	82	642708	5800-152J	1500
642601	5800-101J	100	642716	5800-222J	2200
642610	5800-121J	120	642724	5800-472J	4700
642628	5800-151J	150	642732	5800-682J	6800
642636	5800-181J	180	642741	5800-103J	10000
642644	5800-221J	220			

Blue P/N = Limited Qty Available

### J. W. Miller 5900 Series Value Equivalents

Qty.	1	10	100	500
Price	\$ 1.25	\$ .99	\$ .79	\$ .59

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
642759	5900-100J	10	642847	5900-331J	330
642767	5900-220J	22	642855	5900-391J	390
642775	5900-470J	47	642863	5900-471J	470
642783	5900-560J	56	642871	5900-681J	680
642791	5900-101J	100	642880	5900-102J	1000
642804	5900-121J	120	642919	5900-682J	6800
642812	5900-151J	150	642901	5900-472J	4700
642821	5900-221J	220	642927	5900-103J	10000
642839	5900-271J	270			

JAMECO ValuePro

## Axial Leaded RF Chokes

- Inductive tolerance: 10%
- Operating temp.: -55°C to +125°C
- Overall length: 3.6" max.
- Lead length: 1.5" max.
- Body length: 0.77" max.
- Body dia.: 0.3" max.

\* Web Code: XCF

### J. W. Miller 4600 Series Value Equivalents

Qty.	1	10	100	500
Price	\$ .95	\$ .75	\$ .59	\$ .45

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
208071	4604	1.5	642337	4624J	15
208080	4606	2.4	642345	4626J	24
208101	4609	5.5	642353	4629J	55
208119	4610	6.2	642388	4632J	100
208127	4611	8.2			

JAMECO ValuePro

## Hash RF Chokes

### J. W. Miller 5200 Series Value Equivalents

- High current capacity
- Ideal for use as EMI filter, output choke smoothing coil
- Low DCR
- Varnish coated

Qty.	1	10	100	500
Price	\$ 1.09	\$ .89	\$ .69	\$ .49

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)
642396	5230J	4	642417	5254J	250
642409	5240J	40	642425	5256J	500
681088	5250J	100	642433	5258J	1000
681070	5252J	125			



**JAMECO ValuePro**

## Molded RF Chokes

★ Web Code: **PBY**

- Dielectric strength: 1000Vrms
- Injection molded to protect from extreme environment
- High Q and high reliability

### J.W. Miller 9230 Series Equivalents

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)	Qty.	1	10	100
372285	9230-94	0.10	372349	9230-16	0.68	Price	\$ .75	\$ .65	\$ .45
372293	9230-00	0.15	372357	9230-20	1.0	Part No.	Cross Ref. No.	L (μH)	
372306	9230-04	0.22	372365	9230-32	3.3	372402	9230-52	22	
372314	9230-10	0.39	372373	9230-34	3.9	372411	9230-56	33	
372322	9230-12	0.47	372381	9230-36	4.7	372429	9230-64	68	
372331	9230-14	0.56	372390	9230-44	10	372437	9230-68	100	
						372445	9230-70	120	

### J.W. Miller 9250 Series Equivalents

Part No.	Cross Ref. No.	L (μH)	Part No.	Cross Ref. No.	L (μH)	Qty.	1	10	100
372453	9250-102	1.0	372496	9250-223	22	Price	\$1.19	\$ .99	\$ .79
372461	9250-222	2.2	372509	9250-473	47	Part No.	Cross Ref. No.	L (μH)	
372470	9250-472	4.7	372517	9250-104	100	372525	9250-224	220	
372488	9250-103	10				372533	9250-474	470	
						372550	9250-225	2200	

**JAMECO ValuePro**

## UL 1007 Stranded Hook-Up Wire

★ Web Code: **JAS**



Part No.	Cross Ref.	AWG	Color	1	5	10
126085	UL1007-22-BK-C	22 (7x30)	Black	\$6.95	\$5.95	\$4.95
126034	UL1007-22-RD-C	22 (7x30)	Red	6.95	5.95	4.95
126077	UL1007-22-WH-C	22 (7x30)	White	6.95	5.95	4.95
310852	UL1007-22-GR-C	22 (7x30)	Green	6.95	5.95	4.95
310878	UL1007-22-YL-C	22 (7x30)	Yellow	6.95	5.95	4.95
310886	UL1007-22-BL-C	22 (7x30)	Blue	6.95	5.95	4.95
125840	UL1007-20-BK-C	20 (10x30)	Black	9.95	8.95	7.95
125795	UL1007-20-RD-C	20 (10x30)	Red	9.95	8.95	7.95
125831	UL1007-20-WH-C	20 (10x30)	White	9.95	8.95	7.95
310894	UL1007-20-GR-C	20 (10x30)	Green	9.95	8.95	7.95
310915	UL1007-20-YL-C	20 (10x30)	Yellow	9.95	8.95	7.95
310922	UL1007-20-BL-C	20 (10x30)	Blue	9.95	8.95	7.95
125787	UL1007-18-BK-C	18 (16x30)	Black	13.95	12.95	11.95
125736	UL1007-18-RD-C	18 (16x30)	Red	13.95	12.95	11.95
125752	UL1007-18-WH-C	18 (16x30)	White	13.95	12.95	11.95
310932	UL1007-18-GR-C	18 (16x30)	Green	13.95	12.95	11.95
310949	UL1007-18-YL-C	18 (16x30)	Yellow	13.95	12.95	11.95
310958	UL1007-18-BL-C	18 (16x30)	Blue	13.95	12.95	11.95

## Solid Hook-Up Wire – 22 AWG

★ Web Code: **PAF**

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test
- MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 168

100 Foot		Pricing	
Part No.	Color	1	5
36768	Blue	\$6.95	\$6.29
36792	Black	6.95	6.29
36822	Green	6.95	6.29
36856	Red	6.95	6.29
36881	White	6.95	6.29
36920	Yellow	6.95	6.29

1000 Foot		Pricing	
Part No.	Color	1	5
36776	Blue	\$59.95	\$54.95
36805	Black	59.95	54.95
36840	Green	59.95	54.95
36864	Red	59.95	54.95
36899	White	59.95	54.95
36928	Yellow	59.95	54.95

**BELDEN**

## Hook-Up Wire – UL/CSA Dual Rated AWM Styles 1007/1569

Applications: Inter-connection circuits, internal wiring of computer and data processing equipment, appliances & automotive. Appliance Wiring Material is Underwriter Laboratories' recognized covering of insulated wire and cable intended for internal wiring of appliances and equipment.

- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- Tinned copper
- PVC insulated
- 100' reel
- Blue Part No. = Limited Quantity Available

Mfr. Part No.	AWG	Stranding	Brown P/N	Red P/N	Orange P/N	Yellow P/N	Green P/N	Violet P/N	Gray P/N	White P/N	Black P/N	Dk Blue P/N	1	5	10
9928-100	28	7 x 34	—	734603	734604	734605	234605	234607	—	—	—	—	\$23.95	\$21.95	\$20.95
9926-100	26	7 x 32	—	734503	—	—	—	734508	—	—	734511	—	25.95	23.95	21.95
9923-100	24	7 x 32	734402	734403	—	—	—	—	—	734410	—	—	27.95	25.95	23.95
9921-100	22	7 x 30	734302	734303	734304	310878	734306	734308	734309	734310	734311	—	29.95	27.95	26.95
9919-100	20	7 x 28	—	125795	—	310915	734206	—	—	734210	734211	734214	36.95	34.95	32.95
9918-100	18	16 x 30	—	734103	—	310949	734106	—	734109	734110	734111	—	39.95	37.95	36.95
9916-100	16	26 x 30	734002	734003	—	234004	734006	734008	734009	734010	734011	734014	59.95	55.95	52.95

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

**BELDEN**

## Bonded-Pair Cable Prep Tool

The bonded-pair cable preparation tool makes it faster and easier to prepare cables for connector termination. Ideal for use with Belden's IBDN's DataTwist® 350 bonded pair cables, providing special features that help separate twisted pairs. It can be used to prepare any unbonded-pair cable for installation.



Part No.	Mfr. Part No.	Description	1	5
1941241	1797B009	Bonded-pair cable prep tool	\$10.95	\$9.95

## Kynar™ Wire-Wrap Wire – 30 AWG

★ Web Code: **NAC**

- Polyvinidene Fluoride insulation
- Silver plated copper (solid conductor)
- Temperature: -40°C to +125°C
- Wire wrap tools, pg 160
- Used for prototyping
- UL 1423
- Passes UL VW-1 flame test
- See pg 18 for sockets



100 Foot Reel		Pricing	
Part No.	Color	1	5
22542	Blue <i>R</i>	\$6.95	\$6.29
22577	Black <i>R</i>	6.95	6.29
22631	Red <i>R</i>	6.95	6.29
22665	White <i>R</i>	6.95	6.29
22606	Green <i>R</i>	6.95	6.29
22700	Yellow <i>R</i>	6.95	6.29

1000 Foot Reel		Pricing	
Part No.	Color	1	5
22551	Blue <i>R</i>	\$49.95	\$44.95
22585	Black <i>R</i>	49.95	44.95
22649	Red <i>R</i>	49.95	44.95
22673	White <i>R</i>	49.95	44.95
22614	Green <i>R</i>	49.95	44.95
22702	Yellow <i>R</i>	49.95	44.95

**JAMECO ValuePro**

## Twisted Paired Cable – 24 AWG

★ Web Code: **EBC**

- PVC insulation
- Use for hook-up wire
- Stranded tinned wire (7 x 32)
- Reduced EMI
- 80°C
- 300 V



100 Foot Reel		Pricing	
Part No.	Color	1	5
173164	Black/white	\$8.95	\$7.95
105912	Grn/white	8.95	7.95
173148	Red/white	8.95	7.95

1000 Foot Reel		Pricing	
Part No.	Color	1	5
173172	Black/white	\$79.95	\$69.95
105807	Grn/white	79.95	69.95
173156	Red/white	79.95	69.95

**JAMECO ValuePro**

## Modular Telephone Cable – 28 AWG

★ Web Code: **LCG**

- Color coded conductors
- Flat modular cable
- 7 x 43 stranded
- Gray
- PVC jacket



Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	5	10
644666	300-840SL-100	4	100	\$5.95	\$5.49	\$4.95
644674	300-840SL-1000	4	1000	49.95	44.95	39.95
644691	300-860SL-100	6	100	8.95	7.95	6.95
644703	300-860SL-1000	6	1000	69.95	64.95	59.95
644720	300-880SL-100	8	100	9.95	8.95	7.95
644738	300-880SL-1000	8	1000	89.95	84.95	79.95

**BELDEN**

## Bus Bar Hook-Up Wire

★ Web Code: **QCS**

- Meets requirements of Federal Specs. QQ-W343G
- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Mfr. Part No.	Description	1	5	10
734169	8022-100	24 AWG, 100' reel	\$22.95	\$20.95	\$18.95
734170	8022-1000	24 AWG, 1000' reel	119.95	109.95	99.95
734167	8021-100	22 AWG, 100' reel	23.95	21.95	19.95
734165	8020-100	20 AWG, 100' reel	29.95	27.95	25.95

◆ Jameco ValuePro substitute available above

★ Web Code: **YCS**



**BELDEN**

• Color: black • PVC jacket

## Coaxial Cable

JAMECO ValuePro

★ Web Code: UEZ

Part No.	*Mfr.	Product No.	Fig.	Length	AWG	Type	Nom. Imp (Ω)	Insul.	Bare Copper	Braid Shield	Pricing	
											1	5
233269	BDN	9116 010100	7	100' Reel	18 Solid	Series 6	75	B	0.040"	60 <sup>3</sup>	\$12.95	\$11.95
232733	BDN	1189A 010100	6	100' Reel	18 Solid	Series 6	75	B	0.040"	60/40 <sup>2</sup>	14.95	13.95
734053	BDN	1189A 010U500 <sup>R</sup>	6	500' Unreel	18 Solid	Series 6	75	B	0.040"	60/40 <sup>2</sup>	64.95	59.95
733286	BDN	9116 0101000 <sup>R</sup>	7	1000' Reel	18 Solid	Series 6	75	B	0.040"	60 <sup>3</sup>	89.95	84.95
734100	BDN	1694A 010100 <sup>R</sup>	4	100' Reel	18 Solid	RG6	75	B	0.040"	95 <sup>1</sup>	59.95	54.95
734155	BDN	1694A 0101000 <sup>R</sup>	4	1000' Reel	18 Solid	RG6	75	B	0.040"	95 <sup>1</sup>	499.95	469.95
732751	BDN	8214 010100 <sup>R</sup>	1	100' Reel	11 Stranded	RG8/U	50	A	0.108"	97	169.95	155.95
732769	BDN	8214 010500 <sup>R</sup>	1	500' Reel	11 Stranded	RG8/U	50	A	0.108"	97	599.95	579.95
232776	BDN	8214 0101000+	1	1000' Reel	11 Stranded	RG8/U	50	A	0.108"	97	699.95	679.95
732865	BDN	8237 0101000 <sup>R</sup>	1	1000' Reel	13 Stranded	RG8/U	52	A	0.085"	97	999.95	899.95
234254	BDN	9258 010100	1	100' Reel	16 Stranded	RG8/X	50	A	0.058"	95	39.95	35.95
734259	BDN	9258 010U500 <sup>R</sup>	1	500' Unreel	16 Stranded	RG8/X	50	A	0.058"	95	229.95	219.95
734258	BDN	9258 010U1000 <sup>R</sup>	1	1000' Unreel	16 Stranded	RG8/X	50	A	0.058"	95	399.95	389.95
734176	BDN	8240 010U500 <sup>R</sup>	2	500' Unreel	20 Solid	RG58A/U	51.5	A	0.032"	95	159.95	149.95
644771	JVP	10X1-041TH-100	3	100' Reel	20 Stranded	RG58A/U	50	A	0.005"	90	23.95	21.95
232813	BDN	8219 010100	3	100' Reel	20 Stranded	RG58A/U	53.5	A	0.037"	96	34.95	33.95
232830	BDN	8219 0101000 <sup>R</sup>	3	1000' Reel	20 Stranded	RG58A/U	53.5	A	0.037"	96	299.95	269.95
232872	BDN	8240 010100	2	100' Reel	20 Solid	RG58A/U	51.5	A	0.032"	95	29.95	26.95
644754	JVP	RG58/U-100	2	100' Reel	20 Solid	RG58/U	50	A	0.015"	38	14.95	13.95
644762	JVP	RG58/U-1000	2	1000' Reel	20 Solid	RG58/U	50	A	0.015"	38	109.95	99.95
234158	BDN	543945 010100	5	100' Reel	20 Solid	RG59/U	75	C	0.145"	95	18.95	16.95
234086	BDN	1505A 010100	4	100' Reel	20 Solid	RG59/U	75	B	0.032"	98 <sup>1</sup>	39.95	35.95
232961	BDN	8281 010100	1	100' Reel	20 Solid	RG59/U	75	A	0.031"	98	69.95	66.95
734161	BDN	543945 010500 <sup>R</sup>	5	500' Reel	20 Solid	RG59/U	75	C	0.145"	95	89.95	79.95
732980	BDN	8281 010500 <sup>R</sup>	1	500' Reel	20 Solid	RG59/U	75	A	0.031"	98	449.95	429.95
734088	BDN	1505A 0101000 <sup>R</sup>	4	1000' Reel	20 Solid	RG59/U	75	B	0.032"	98 <sup>1</sup>	349.95	339.95
232987	BDN	8281 0101000+	1	1000' Reel	20 Solid	RG59/U	75	A	0.031"	98	469.95	459.95
644797	JVP	RG59/U-100	2	100' Reel	22 Solid	RG59/U	75	A	0.005"	31	12.95	11.95
644800	JVP	RG59/U-1000	2	1000' Reel	22 Solid	RG59/U	75	A	0.005"	31	79.95	72.95
732902	BDN	8241 010100 <sup>R</sup>	1	100' Reel	23 Solid	RG59/U	75	A	0.023"	95	44.95	42.95
732911	BDN	8241 010500 <sup>R</sup>	1	500' Reel	23 Solid	RG59/U	75	A	0.023"	95	149.95	139.95
232653	BDN	9259 010100	1	100' Reel	22 Stranded	RG59/U	75	A	0.030"	95	39.95	35.95
734071	BDN	9259 010U500 <sup>R</sup>	1	500' Unreel	22 Stranded	RG59/U	75	A	0.030"	95	199.95	189.95
734070	BDN	9259 010U1000 <sup>R</sup>	1	1000' Unreel	22 Stranded	RG59/U	75	A	0.030"	95	379.95	359.95
732785	BDN	8216 010100 <sup>R</sup>	2	100' Reel	26 Stranded	RG174/U	50	A	0.019"	90	39.95	36.95
644818	JVP	RG174/U-100	3	100' Reel	26 Stranded	RG174/U	50	A	0.020"	98	19.95	18.95
644826	JVP	RG174/U-1000	3	1000' Reel	26 Stranded	RG174/U	50	A	0.020"	98	179.95	169.95
234135	BDN	8218 010U100	2	100' Reel	27 Stranded	Video	75	A	0.017"	93	39.95	35.95
734173	BDN	8218 0101000 <sup>R</sup>	2	1000' Reel	27 Stranded	Video	75	A	0.017"	93	349.95	339.95

Blue Part No. = Limited Quantity Available



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

A = Polyethylene  
B = Gas Injected Foam HDPE  
C = Polyolefin  
1 = With DuoFoil shield  
2 = Duobond IV shield  
3 = Duobond II + Aluminum Braid Shield

THE JAMECO WORKSHOP

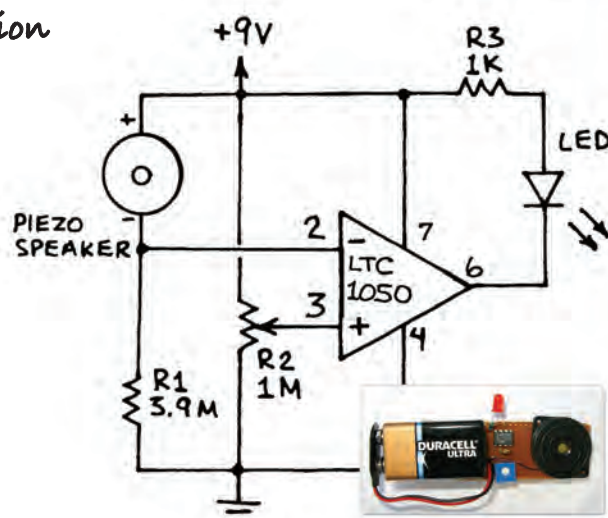
## Build a Simple Ultra Sensitive Vibration Sensor with no Moving Parts

by Forrest M. Mims III

Sense footsteps on a wooden floor or the movement of a parked car with a simple vibration and motion sensor. Most sensors can be made using a pendulum switch, mercury switch and various other methods. But how about creating one that doesn't use any moving parts to detect vibration? As shown in the circuit to the right, you can use a piezo speaker element to create an ultra sensitive vibration sensor. Take it to the next level and you may even be able to detect seismic activity.

For this and other do-it-yourself projects go to:

[www.jameco.com/FMR4](http://www.jameco.com/FMR4)



\* BDN = Belden | JVP = Jameco ValuePro

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Paired Cable

★ Web Code: HCS

Part No.	Product No.	Fig.	AWG/Drain Wire	# of Pairs	Length	Jacket	Wire Color	Insul.	Pricing	
									1	5
734179	1419A 060100	1	24 / 24	2	100' Reel	Chrome/PVC	Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str	D	\$29.95	\$26.95
734085	1419A 060100	1	24 / 24	2	1000' Reel	Chrome/PVC	Wh/Blue Str, Blue/Wh Str, Wh/Org Str, Org/Wh Str	D	279.95	259.95
734171	8205 060U1000	3	20 / —	1	1000' Unreel	Chrome/PVC	Black/Red (Stranded)	E	169.95	159.95
733112	8451 010100	2	22 / 22	1	100' Reel	Black/PVC	Black/Red	A	26.95	24.95
734063	8451 010U500	2	22 / 22	1	500' Unreel	Black/PVC	Black/Red	A	129.95	115.95
734062	8451 010U1000	2	22 / 22	1	1000' Unreel	Black/PVC	Black/Red	A	189.95	179.95
233146	8714 060100 +	4	16 / 18	1	100' Reel	Chrome/PVC	Black/Clear	B	69.95	63.95
734065	8719 060U500	4	16 / 18	1	500' Unreel	Chrome/PVC	Black/Clear	B	259.95	239.95
733163	8719 0601000	4	16 / 18	1	1000' Reel	Chrome/PVC	Black/Clear	B	595.95	569.95
734064	8719 060U1000	4	16 / 18	1	1000' Unreel	Chrome/PVC	Black/Clear	B	595.95	549.95
233171	8720 060100 +	4	14 / 16	1	100' Reel	Chrome/PVC	Black/Clear	B	79.95	69.95
733190	8720 060500	4	14 / 16	1	500' Reel	Chrome/PVC	Black/Clear	B	399.95	369.95
734066	8720 060U500	4	14 / 16	1	500' Unreel	Chrome/PVC	Black/Clear	B	399.95	369.95
734180	8723 060100	5	22 / 24	2	100' Reel	Chrome/PVC	Black/Red, Green/White	A	49.95	46.95
734184	8723 060U500	5	22 / 24	2	500' Unreel	Chrome/PVC	Black/Red, Green/White	A	199.95	189.95
734181	8723 0601000	5	22 / 24	2	1000' Reel	Chrome/PVC	Black/Red, Green/White	A	399.95	379.95
234184	8790 060100	4	18 / 24	1	100' Reel	Chrome/PVC	Black/Clear	B	29.95	26.95
734189	8760 060U500	4	18 / 24	1	500' Unreel	Chrome/PVC	Black/Clear	B	129.95	119.95
734186	8760 0601000	4	18 / 24	1	1000' Reel	Chrome/PVC	Black/Clear	B	259.95	249.95
734191	8761 060500	4	22 / 22	1	500' Reel	Chrome/PVC	Black/Clear	B	99.95	89.95
734193	8761 060U500	4	22 / 22	1	500' Unreel	Chrome/PVC	Black/Clear	B	99.95	89.95
734190	8761 0601000	4	22 / 22	1	1000' Reel	Chrome/PVC	Black/Clear	B	179.95	169.95
734192	8761 060U1000	4	22 / 22	1	1000' Unreel	Chrome/PVC	Black/Clear	B	179.95	169.95
234194	8762 060100 +	4	20 / 20	1	100' Reel	Chrome/PVC	Black/Clear	B	29.95	26.95
734197	8762 060500	4	20 / 20	1	500' Reel	Chrome/PVC	Black/Clear	B	139.95	129.95
734260	9402 060100	6	20 / 22	2	100' Reel	Chrome/PVC	Black/Red, Green/White	C	79.95	75.95
732689	9451 008100	2	22 / 22	1	100' Reel	Gray/PVC	Black/Red	A	24.95	21.95
733412	9451 008T1000	2	22 / 22	1	1000'	Gray/PVC	Black/Red	A	199.95	189.95
732452	9502 060100	7	24 / 24	2	100' Reel	Chrome/PVC	Black/Red, Black/White	C	34.95	29.95
734076	9502 060U500	7	24 / 24	2	500' Unreel	Chrome/PVC	Black/Red, Black/White	C	145.95	139.95
232485	9503 060100	8	24 / 24	3	100' Reel	Chrome/PVC	Blk/Red, Blk/White, Blk/Green	C	39.95	35.95
734078	9503 060U500	8	24 / 24	3	500' Unreel	Chrome/PVC	Blk/Red, Blk/White, Blk/Green	C	194.95	189.95
732515	9504 060100	9	24 / 24	4	100' Reel	Chrome/PVC	Blk/Red, Blk/White, Blk/Green, Blk/Blue	C	69.95	64.95
732523	9504 060500	9	24 / 24	4	500' Reel	Chrome/PVC	Blk/Red, Blk/White, Blk/Green, Blk/Blue	C	249.95	229.95
732550	9505 060100	9	24 / 24	5	100' Reel	Chrome/PVC	Blk/Red, Blk/Wh, Blk/Green, Blk/Blue, Blk/Yellow	C	59.95	53.95
734079	9505 060U500	9	24 / 24	5	500' Unreel	Chrome/PVC	Blk/Red, Blk/Wh, Blk/Green, Blk/Blue, Blk/Yellow	C	249.95	239.95

Ⓢ Blue Part No. = Limited Quantity Available



Fig. 1



Fig. 2

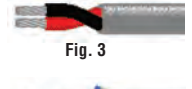


Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

A = Polypropylene  
B = Polyethylene  
C = Semi-rigid PVC  
D = Datalene  
E = Standard PVC  
Wh = White Blk = Black  
Org = Orange Str = Stripe



## Multi-Conductor Cable

★ Web Code: TCS

Part No.	Mir.	Product No.	Fig.	AWG (stranded)	# of Cond.	Length	Jacket	Wire Color	Insul.	Nom. O.D.	Pricing	
											1	5
732996	BDN	8442 060100	1	22 <sup>2</sup>	2	100' Reel	Chrome/PVC	Black, Red	A	0.170"	\$29.95	\$26.95
733008	BDN	8442 060500	1	22 <sup>2</sup>	2	500' Reel	Chrome/PVC	Black, Red	A	0.170"	109.95	99.95
734054	BDN	8442 060U1000	1	22 <sup>2</sup>	2	1000' Unreel	Chrome/PVC	Black, Red	A	0.170"	199.95	189.95
733024	BDN	8443 060100	2	22 <sup>2</sup>	3	100' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	34.95	32.95
733032	BDN	8443 060500	2	22 <sup>2</sup>	3	500' Reel	Chrome/PVC	Black, Red, Green	A	0.172"	139.95	135.95
734057	BDN	8443 060U500	2	22 <sup>2</sup>	3	500' Unreel	Chrome/PVC	Black, Red, Green	A	0.172"	149.95	144.95
733059	BDN	8444 060100	3	22 <sup>2</sup>	4	100' Reel	Chrome/PVC	Blk, Red, Wh, Grn	A	0.185"	44.95	42.95
733067	BDN	8444 060500	3	22 <sup>2</sup>	4	500' Reel	Chrome/PVC	Blk, Red, Wh, Grn	A	0.185"	179.95	169.95
734059	BDN	8444 060U500	3	22 <sup>2</sup>	4	500' Unreel	Chrome/PVC	Blk, Red, Wh, Grn	A	0.185"	179.95	169.95
233082	BDN	8445 060100+Ⓢ	4	22 <sup>2</sup>	5	100' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	39.95	36.95
733104	BDN	8445 0601000	4	22 <sup>2</sup>	5	1000' Reel	Chrome/PVC	Blk, Red, Wh, Grn, Brn	A	0.194"	349.95	339.95
733201	BDN	8770 060100	5	18/20 drain wire <sup>1</sup>	3	100' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	59.95	57.95
733227	BDN	8770 0601000	5	18/20 drain wire <sup>1</sup>	3	1000' Reel	Chrome/PVC	Black, Red, Clear	B	0.246"	599.95	579.95
733235	BDN	8771 060100	5	22/22 drain wire <sup>1</sup>	3	100' Reel	Chrome/PVC	Black, Red, Clear	B	0.199"	39.95	37.95
733243	BDN	8771 060500	5	22/22 drain wire <sup>1</sup>	3	500' Reel	Chrome/PVC	Black, Red, Clear	B	0.199"	159.95	149.95

Ⓢ Blue Part No. = Limited Quantity Available



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

1 = Overall Beldfoil Shield  
2 = Unshielded  
3 = 100 Aluminum Mylar Shield  
A = PVC B = Polyethylene  
Blk = Black Brn = Brown  
Grn = Green Wh = White

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## Multi-Conductor Cable (Continued)

Part No.	Mfr.	Product No.	Fig.	AWG (stranded)	# of Cond.	Length	Jacket	Wire Color	Insul.	Nom. O.D.	Pricing		
											1	5	10
644383	JVP	SC4-25	6	24 drain wire <sup>3</sup>	4	25' Reel	Gray/PVC	Multi-Colored	A	0.200"	\$6.95	\$6.25	\$5.59
644391	JVP	SC4-100	6	24 drain wire <sup>3</sup>	4	100' Reel	Gray/PVC	Multi-Colored	A	0.200"	24.95	22.49	19.95
644404	JVP	SC4-1000	6	24 drain wire <sup>3</sup>	4	1000' Reel	Gray/PVC	Multi-Colored	A	0.200"	179.95	169.95	159.95
644412	JVP	SC-925	6	24 drain wire <sup>3</sup>	9	25' Unreel	Gray/PVC	Multi-Colored	A	0.230"	14.95	12.95	11.95
644421	JVP	SC9-100	6	24 drain wire <sup>3</sup>	9	100' Reel	Gray/PVC	Multi-Colored	A	0.230"	44.95	39.95	35.95
644439	JVP	SC9-1000	6	24 drain wire <sup>3</sup>	9	1000' Reel	Gray/PVC	Multi-Colored	A	0.230"	349.95	329.95	299.95
644447	JVP	SC15-25	6	24 drain wire <sup>3</sup>	15	25' Unreel	Gray/PVC	Multi-Colored	A	0.280"	24.95	22.95	19.95
644455	JVP	SC15-100	6	24 drain wire <sup>3</sup>	15	100' Reel	Gray/PVC	Multi-Colored	A	0.280"	49.95	44.95	39.95
644463	JVP	SC15-1000	6	24 drain wire <sup>3</sup>	15	1000' Reel	Gray/PVC	Multi-Colored	A	0.280"	399.95	379.95	359.95
644471	JVP	SC25-25	6	24 drain wire <sup>3</sup>	25	25' Unreel	Gray/PVC	Multi-Colored	A	0.370"	29.95	26.95	23.95
644480	JVP	SC25-100	6	24 drain wire <sup>3</sup>	25	100' Reel	Gray/PVC	Multi-Colored	A	0.370"	89.95	85.95	79.95
2006377	JVP	SC25-500	6	24 drain wire <sup>3</sup>	25	500' Unreel	Gray/PVC	Multi-Colored	A	0.370"	399.95	379.95	359.95
644498	JVP	SC25-1000	6	24 drain wire <sup>3</sup>	25	1000' Reel	Gray/PVC	Multi-Colored	A	0.370"	699.95	649.95	—

\*Web Code: TCS



Fig. 6

- 1 = Overall Beldfoil Shield
- 2 = Unshielded
- 3 = 100 Aluminum Mylar Shield
- A = PVC
- B = Polyethylene
- Blk = Black Brn = Brown
- Grn = Green Wh = White



## Speaker Cable

\*Web Code: JCS

Part No.	Product No.	Length	AWG	Color	1	5
734081	9708 368U1000	1000' Unreel	18 Stranded	Clear	\$349.95	\$329.95
232602	9717 368100	100' Reel	14 Stranded	Clear	39.95	35.95
733430	9717 368500	500' Reel	14 Stranded	Clear	329.95	299.95
232629	9718 368100	100' Reel	12 Stranded	Clear	59.95	54.95
732646	9718 3681000	1000' Reel	12 Stranded	Clear	849.95	839.95

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## 2-Conductor Power/Speaker Cable – 24 AWG

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V

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\*Web Code: VAL

Part No.	Product No.	Length	1	5	10
100280	CAR45B-100	100' .....	\$7.95	\$7.25	\$6.49
100299	CAR45B-1K	1000' .....	54.95	49.95	46.95

JAMECO ValuePro

## Flat Ribbon Cable

- Standard 10-color repeat sequence
- Temp. rating: -20°C to +80°C

- Volt. rating: 300V
- Stranded copper wire
- Center spacing: 0.05"
- Prepackaged and priced in lengths listed below

### Multicolor Cable — 28AWG (7 x 36)

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
639672	28RC10-10	10	10' .....	\$3.95	\$3.59	\$3.19
643508	28RC10-25	10	25' .....	8.95	7.95	6.95
643516	28RC10-100	10	100' reel .....	31.95	29.95	27.95
689311	9L2801000RH*	10	100' reel .....	31.95	29.95	27.95
643532	28RC16-10	16	10' .....	5.95	5.49	4.95
643541	28RC16-25	16	25' .....	12.95	11.95	10.95
643559	28RC16-100	16	100' reel .....	49.95	44.95	39.95
643575	28RC20-10	20	10' .....	6.95	6.49	5.95
643583	28RC20-25	20	25' .....	16.95	15.49	13.95
643591	28RC20-100	20	100' reel .....	64.95	59.95	54.95
643612	28RC25-10	25	10' .....	8.95	7.95	6.95
643621	28RC25-25	25	25' .....	19.95	18.49	16.95
643639	28RC25-100	25	100' reel .....	69.95	62.95	56.95
643655	28RC34-10	34	10' .....	10.95	9.95	8.95
643663	28RC34-25	34	25' .....	25.95	23.95	21.95
643671	28RC34-100	34	100' reel .....	94.95	89.95	84.95
643698	28RC40-10	40	10' .....	12.95	11.95	10.95
643701	28RC40-25	40	25' .....	33.95	29.95	26.95

\*Belden: -40°C to +105°C



## Composite Data, Audio, Video Security and Control Cable

Two RG6 18 AWG solid bare copper conductors and Two 4-pair UTP 24 AWG solid bare copper conductors

- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Banana Peel™ jacketless cable
- Component nominal outer diameter: 200"

Part No.	Mfr. Part No.	Description	Color	Price
734164	7913S-500	500' reel	Black .....	\$299.95
234162	7913S-1000+	1000' reel	Black .....	399.95

## Flat Ribbon Cable

Gray Cable .100" (2.54mm) — 24AWG

\*Web Code: WBX

- Insulation material: 7mm polyvinyl chloride (PVC) gray
- Capacitance: 31pF/m
- Insulation resis.: 100MΩ
- Temp. rating: 105°C

Part No.	*Mfr.	Cross Ref.	Conductor	Length	1	5	25
363813	+	H24G-10-10	10	10' .....	\$9.95	\$8.95	\$7.95
363856	JVP	H24G-10-100	10	100' .....	69.95	63.95	59.95

## Flat Ribbon Cable

\*Web Code: WCF

### Multicolor Cable — 28AWG (7 x 36) (Cont.)

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
643719	28RC40-100	40	100' reel .....	\$119.95	\$109.95	\$99.95
643735	28RC50-10	50	10' .....	19.95	17.95	15.95
643743	28RC50-25	50	25' .....	39.95	36.95	33.95
643751	28RC50-100	50	100' reel .....	139.95	135.95	129.95
689426	9L2805000RH100*	50	100' reel .....	145.95	139.95	133.95

\*Belden: -40°C to +105°C

### Gray Cable — 28AWG (7 x 36)

- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation

\*Web Code: WBX

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
643794	171-10-10	10	10' .....	\$2.79	\$2.49	\$2.19
643807	171-10-25	10	25' .....	5.49	5.25	4.99
643815	171-10-100	10	100' reel .....	17.95	15.95	14.95
643831	171-16-10	16	10' .....	3.95	3.59	3.29
643840	171-16-25	16	25' .....	7.95	6.95	6.29
643858	171-16-100	16	100' reel .....	23.95	21.95	19.95
643874	171-20-10	20	10' .....	3.95	3.59	3.29
643882	171-20-25	20	25' .....	8.95	7.95	6.95
643891	171-20-100	20	100' reel .....	32.95	29.95	26.95

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\*BDN = Belden | JVP = Jameco ValuePro | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

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## Flat Ribbon Cable (Continued)

• Prepackaged and priced in increments listed below

★ Web Code: WBX

Part No.	Cross Ref. No.	Conductors	Length	1	5	25
643911	171-25-10R	25	10'	\$4.95	\$4.49	\$3.95
643920	171-25-25R	25	25'	10.95	8.95	7.95
643938	171-25-100R	25	100' reel	36.95	33.95	29.95
643962	171-26-10R	26	10'	5.95	5.49	4.95
643971	171-26-25R	26	25'	11.95	10.95	9.95
643989	171-26-100R	26	100' reel	39.95	36.95	33.95
644033	171-34-10R	34	10'	6.49	5.95	5.49
644041	171-34-25	34	25'	12.95	11.95	10.95
644050	171-34-100R	34	100' reel	47.95	44.95	42.95
644076	171-37-10R	37	10'	6.95	6.29	5.59
644084	171-37-25R	37	25'	13.95	12.95	11.95
644092	171-37-100R	37	100' reel	49.95	44.95	39.95
644113	171-40-10R	40	10'	7.95	6.95	6.29
644121	171-40-25R	40	25'	15.95	14.49	12.95
644130	171-40-100R	40	100' reel	54.95	49.95	44.95
644156	171-50-10R	50	10'	8.95	7.95	6.95
644164	171-50-25R	50	25'	17.95	16.49	14.95
644172	171-50-100R	50	100' reel	59.95	56.95	52.95
644199	171-60-10R	60	10'	9.95	8.95	7.95
644201	171-60-25R	60	25'	19.95	17.95	15.95
644210	171-60-100R	60	100' reel	64.95	59.95	54.95

JAMECO ValuePro

## Category 5e Network Cable

★ Web Code: KCG



### 24 AWG UTP Category 5e Enhanced - 350MHz (Non-Plenum)

Part No.	*Mfr.	Prod. No.	Length	Color	Description	1	5
645714	JVP	10X5-704TH-25VP	25'	Blue	Solid	\$3.95	\$3.49
645722	JVP	10X5-704TH-100VP	100'	Blue	Solid	13.95	12.49
645731	JVP	10X5-704TH-1000R	1000'	Blue	Solid	119.95	109.95
644543	JVP	10X5-701TH-25VP	25'	Gray	Solid	3.95	3.49
644551	JVP	10X5-701TH-100R	100'	Gray	Solid	13.95	12.49
644560	JVP	10X5-701TH-1000R	1000'	Gray	Solid	119.95	109.95
1941881	BDN	1700A 0091000R	1000'	White	Solid	169.95	164.95
644607	JVP	10X5-804TH-25	25'	Blue	Stranded	4.95	4.49
644615	JVP	10X5-804TH-100	100'	Blue	Stranded	15.95	13.49
644623	JVP	10X5-804TH-1000R	1000'	Blue	Stranded	125.95	109.95
645773	JVP	10X5-802TH-25	25'	Black	Stranded	4.95	4.49
645781	JVP	10X5-802TH-100	100'	Black	Stranded	15.95	13.49
645790	JVP	10X5-802TH-1000R	1000'	Black	Stranded	125.95	109.95
644578	JVP	10X5-801TH-25VP	25'	Gray	Stranded	4.95	4.49
644586	JVP	10X5-801TH-100	100'	Gray	Stranded	15.95	13.49
644594	JVP	10X5-801TH-1000R	1000'	Gray	Stranded	125.95	109.95
645749	JVP	10X5-805TH-25VP	25'	Red	Stranded	4.95	4.49
645757	JVP	10X5-805TH-100VP	100'	Red	Stranded	15.95	13.49
645765	JVP	10X5-805TH-1000	1000'	Red	Stranded	125.95	109.95
645802	JVP	10X5-806TH-25VP	25'	Yellow	Stranded	4.95	4.49
645811	JVP	10X5-806TH-100VP	100'	Yellow	Stranded	15.95	13.49

### 24 AWG UTP Category 5e Enhanced - 350MHz (Plenum)

734097	BDN	1585A D15100R	100'	Blue	Solid	\$29.95	\$28.95
1942104	BDN	1501A D151000R	1000'	Blue	Solid	249.95	239.95
734098	BDN	1585A D15U1000R	1000' Unreel	Blue	Solid	249.95	229.95
734093	BDN	1585A 877100R	100'	Natural	Solid	29.95	28.95
734094	BDN	1585A 8771000R	1000'	Natural	Solid	249.95	229.95
734096	BDN	1585A 877U1000R	1000' Unreel	Natural	Solid	249.95	229.95
1942121	BDN	1501A 0091000R	1000'	White	Solid	249.95	239.95
1941970	BDN	1701A 0091000R	1000'	White	Solid	349.95	329.95

\*Bonded

\*BDN = Belden | JVP = Jameco ValuePro

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## Network Cables

### Category 6

★ Web Code: BBK

- Gold over nickel contacts
- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6



Part No.	Length	Color	1	10	50
219707	3 ft. R	Gray	\$2.25	\$1.95	\$1.75
219715	7 ft. R	Gray	3.25	2.95	2.49
219723	14 ft. R	Gray	6.25	5.49	4.95
219731	25 ft. R	Gray	8.95	7.95	6.95
219740	50 ft. R	Gray	13.95	12.55	10.95
219854	3 ft. R	Blue	2.25	1.95	1.75
219862	7 ft. R	Blue	3.25	2.95	2.49
219871	14 ft. R	Blue	6.25	5.49	4.95
219889	25 ft. R	Blue	8.95	7.95	6.95
219897	50 ft. R	Blue	13.95	12.55	10.95
220003	3 ft. R	White	2.25	1.95	1.75
220011	7 ft. R	White	3.25	2.95	2.49
220046	50 ft. R	White	11.95	10.49	9.49
219900	3 ft. R	Red	2.25	1.95	1.75
219918	7 ft. R	Red	3.25	2.95	2.49
219934	25 ft. R	Red	8.95	7.95	6.95
219942	50 ft. R	Red	13.95	12.55	10.95
219803	3 ft. R	Green	2.25	1.95	1.75
219811	7 ft. R	Green	3.25	2.95	2.49
219820	14 ft. R	Green	6.25	5.49	4.95
219766	7 ft. R	Black	3.25	2.95	2.49
219782	25 ft. R	Black	8.95	7.95	6.95
219791	50 ft. R	Black	11.95	10.49	9.49
219969	7 ft. R	Yellow	3.25	2.95	2.49
219993	50 ft. R	Yellow	13.95	12.55	10.95

### Category 5e

★ Web Code: CAE

- 8P8C • 4 pair • 350 MHz • UTP
- 24 AWG (7 x 43) stranded • "Snagless" boot • Color coded for easy wire tracing

Part No.	Length	Color	1	10	100
168292	3 ft.	Gray	\$1.55	\$1.39	\$1.25
168305	7 ft. R	Gray	2.25	1.95	1.75
168313	15 ft.	Gray	3.95	3.55	2.95
168321	25 ft.	Gray	6.75	5.95	5.35
201777	3 ft. R	Red	1.55	1.39	1.25
201785	7 ft.	Red	2.25	1.95	1.75
201793	15 ft.	Red	3.95	3.55	2.95
201806	25 ft. R	Red	6.75	5.95	5.35
201697	3 ft. R	Black	1.55	1.39	1.25
201700	7 ft. R	Black	2.25	1.95	1.75
201718	15 ft.	Black	3.95	3.55	2.95
201726	25 ft. R	Black	6.75	5.95	5.35
201734	3 ft.	Blue	1.55	1.39	1.25
1945381	5 ft.	Blue	1.95	1.75	1.65
201742	7 ft. R	Blue	2.25	1.95	1.75
1945401	10 ft.	Blue	3.49	3.15	2.75
201751	15 ft.	Blue	3.95	3.55	2.95
201769	25 ft. R	Blue	6.75	5.95	5.35
522845	50 ft.	Blue	7.95	6.95	6.25
201814	3 ft. R	Yellow	1.55	1.39	1.25
1945372	5 ft.	Yellow	1.95	1.75	1.65
201822	7 ft.	Yellow	2.25	1.95	1.75
1945399	10 ft.	Yellow	3.49	3.15	2.75
201831	15 ft.	Yellow	3.95	3.55	2.95
201849	25 ft. R	Yellow	6.75	5.95	5.35

## RJ11 Retractable Cable

This RJ11 cable extends up to 8'. When you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.



Part No.	Product No.	1	5	100
233349	AC29908B	\$1.25	\$ .99	\$ .89

# Network Cables, Modular Plugs, Jacks & Accessories

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## Cat 5e/6 Network Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP

\*Web Code: CAE

Part No.	*Mir.	Length	Description	1	10	100
681109	+	3 ft.	Cat 5e gray	\$2.75	\$2.45	\$2.19
302041	JVP	7 ft.	Cat 5e gray	3.75	3.35	2.95
685812	+	7 ft.	Cat 5e yellow	3.75	3.35	2.95
169261	JVP	10 ft.	Cat 5e gray	6.95	6.25	5.65
203781	JVP	12 ft.	Cat 5e black	2.95	2.65	2.35
679762	+	3 ft.	Cat 6 gray	1.49	1.35	1.19
681096	+	7 ft.	Cat 6 gray	3.75	3.35	2.95

## Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

\*Web Code: EBF

Style 1 – Reverse wiring for telephone systems

Style 2 – Straight wiring for networking/printer sharing

Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
196227	1	RJ11-6P4C	7ft.	\$1.75	\$1.59	\$1.39
115554	2	RJ11-6P4C	7ft.	1.75	1.59	1.39
115545	1	RJ11-6P4C	25ft.	2.95	2.65	2.35
201232	2	RJ11-6P4C	35ft.	1.75	1.59	1.39
115588	1	RJ11-6P6C	7ft.	1.49	1.35	1.19
115617	2	RJ11-6P6C	7ft.	1.95	1.75	1.59
355653	2	RJ11-6P6C	14ft.	.75	.69	.55
115677	2	RJ45-8P8C	7ft.	1.95	1.75	1.59

† Beige

## Keystone-Type RJ11 & RJ45 Jacks

### Modular Punchdown Type

- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 1.23"D x 0.63"H

\*Web Code: MBV

Part No.	*Mir.	Description	Color	1	10	50
213517	+	6P6C (RJ11)	White	\$2.75	\$2.49	\$2.25
615048	GCE	8P8C (RJ45)	Black	4.75	4.25	3.79
195630	+	8P8C (RJ45)	Black	2.25	1.95	1.75
212951	+	8P8C (RJ45)	Blue	2.25	1.95	1.75
212944	+	8P8C (RJ45)	White	2.95	2.65	2.39
195637	+	8P8C (RJ45)	Ivory	1.95	1.75	1.69
636130	FST	8P8C (RJ45)	Almond	2.75	2.49	2.25
615144	GCE	Tool-less	Ivory	2.49	2.25	1.95

## RJ45-Plug Color Caps (Boots)

- Round strain relief
- Order in multiples of 10

\*Web Code: JBG

Part No.	Color	10	100	500	1000
204410	Black	\$1.19	\$1.17	\$1.15	\$1.11
204353	Gray	.19	.17	.15	.11
204362	Blue	.19	.17	.15	.11

## Cisco Wall Jack DSL Filter

- Filters out DSL
- Dimension: 4.7" x 3.0"

Part No.	Description	Color	1	10
15077	6P4C (RJ11)	White	\$2.95	\$2.65

JAMECO ValuePro

P = No. of positions  
C = No. of contacts



103491

79290

79273

79281

119343

\* Order in multiples of 10

Part No.	Description	Size (L" x W" x H")	1	10	100	1000
103491	4P4C (RJ14) handset	.485 x .30 x .26	*	\$ .13	\$ .12	\$ .09
79290	6P4C (RJ11)	.487 x .38 x .26	*	.14	.13	.10
79273	6P6C (RJ11)	.487 x .38 x .26	.25	.23	.20	.18
79281	8P8C (RJ45) (for stranded wire)	.845 x .46 x .31	.47	.43	.38	.29
119343	8P8C (RJ45) unshielded (for solid wire)	.845 x .46 x .31	.45	.39	.35	.29
116611	8P8C (RJ45) shielded	.866 x .46 x .33	1.09	.99	.89	.79
204231	8P8C (RJ45) shielded (for STP stranded wire)	.484 x .455 x .285	.75	.69	.59	.49
116602	8P8C (RJ45) shielded (for solid wire)	.845 x .46 x .31	.99	.89	.79	.59
180646	10P10C (RJ50) for stranded wire	.849 x .46 x .31	.39	.35	.29	.25
524411	8P8C, unshielded flat oval solid	.820 x .464 x .314	.55	.49	.45	.39

JAMECO ValuePro

## Modular Jacks



115128

151766

115837

204178

124039

115844

203449

524461

1537416

524488

Blue Part No. = Limited Quantity Available

Part No.	*Mir.	Description	Panel Mount	Size (L" x W" x H")	1	10	100	1000
115128	JVP	4P4C (RJ14) handset side entry, center latch	No	.51 x .40 x .57	\$ .45	\$ .39	\$ .35	\$ .29
852836	AMP	4P4C (RJ14) side entry, center latch, flangeless	No	.82 x .44 x .63	.75	.69	.59	.49
199620	JVP	4P4C (handset) side entry, center latch	Yes	.51 x .45 x .57	.35	.29	.25	.19
105945	JVP	6P4C (RJ11) side entry, center latch, top flange	Yes	.48 x .48 x .71	*.19	*.19	*.17	*.15
524277	AMP	6P6C (RJ11) top entry, center latch, flangeless	No	.53 x .64 x .63	.65	.59	.55	.49
2077781	JVP	6P4C (RJ11) side entry, center latch	No	.72 x .51 x .45	.45	.39	.35	.29
2077221	+	6P6C (RJ11) side entry, front latch, PCB ground	Yes	.73 x .55 x .58	.69	.59	.49	.45
115837	JVP	6P6C (RJ11) side entry, center latch	Yes	.51 x .48 x .57	.85	.75	.65	.59
151766	JVP	6P4C (RJ11) side entry, center latch	Yes	.80 x .52 x .59	.65	.59	.55	.49
852449	AMP	6P6C (RJ25) side entry, center latch, SMT, low profile	Yes	.72 x .63 x .50	.89	.79	.69	.59
204178	JVP	6P6C (RJ11) dual entry, center latch	Yes	.62 x 1.1 x .60	1.35	1.19	.99	.79
124039	JVP	6P6C (RJ11) top entry, 6" leads, panel mount	Yes	.54 x .61 x .72	1.25	1.09	.99	.89
800315	MOL	6P6C (RJ11) side entry, center latch, unshielded, ganged	No	.92 x .85 x .52	2.95	2.65	2.39	2.15
115844	JVP	8P8C (RJ45) side entry, center latch	No	.53 x .60 x .57	.69	.59	.55	.49
2078240	+	8P8C (RJ45) side entry, center latch	Yes	.81 x .60 x .59	.69	.59	.49	.45
203449	JVP	8P8C (RJ45) side entry, center latch, shielded	No	.84 x .63 x .53	.95	.85	.75	.65
204215	JVP	8P8C (RJ45) side entry, center latch, low profile	No	.81 x .60 x .50	.95	.85	.75	.65
2078258	+	8P8C (RJ45) side entry, center latch, low profile	No	.71 x .60 x .46	.49	.45	.39	.35
524461	AMP	8P8C (RJ45) side entry, front latch, low profile	No	.72 x .61 x .50	.55	.49	.45	.39
524251	AMP	8P8C (RJ45) side entry, center latch	Yes	.82 x .61 x .64	.65	.59	.49	.45
2078266	+	8P8C (RJ45) side entry, front latch, low profile	No	.68 x .59 x .49	.49	.45	.39	.35
1537416	KYC	8P8C (RJ45) side entry, front latch, low profile	Yes	.72 x .60 x .50	.59	.49	.35	.29
524488	AMP	8P8C (RJ45) top entry, top latch	No	.66 x .62 x .63	.65	.59	.55	.49
2077790	+	8P8C (RJ45) top entry, bottom latch	Yes	.64 x .61 x .62	.59	.55	.49	.45
889129	AMP	6P6C (RJ25) top entry, center latch SMT	No	.55 x .53 x .50	1.65	1.49	1.35	1.19

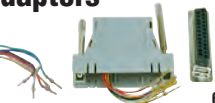
JAMECO ValuePro

## RS-232-to-RJ11/RJ45 Modular Jack Adapters

Simplify networking applications when changing your RS-232 port to an RJ11 or RJ45 modular jack. Comes with all necessary hardware and wiring.

\*Web Code: RDR

JAMECO EXCLUSIVE



66181

66237

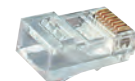
Part No.	*Mir.	Description	1	10	100	Part No.	*Mir.	Description	1	10	100
66181	JVP	DB9 M to RJ11 (6P6C)	\$2.59	\$2.35	\$1.95	66212	JVP	DB9 F to RJ45 (8P8C)	\$2.95	\$2.65	\$2.39
204265	JVP	DB9 M to RJ11 (6P6C)	.75	.69	.59	615005	GCE	DB9 F to RJ45 (8P8C)	2.45	2.19	1.95
66191	JVP	DB9 M to RJ45 (8P8C)	2.89	2.59	2.35	66229	JVP	DB25 M to RJ11 (6P6C)	2.95	2.65	2.39
614977	GCE	DB9 M to RJ45 (8P8C)	2.75	2.49	2.25	66237	JVP	DB25 M to RJ45 (8P8C)	1.85	1.69	1.49
614985	GCE	DB9 F to RJ11 (4P4C)	1.95	1.75	1.59	615021	GCE	DB25 M to RJ45 (8P8C)	2.75	2.49	2.25
114738	JVP	DB9 F to RJ11 (6P4C)	2.35	2.09	1.89	204273	JVP	DB25F - RJ11 (6P4C)	.65	.59	.55
66203	JVP	DB9 F to RJ11 (6P6C)	2.79	2.49	2.25	66254	JVP	DB25 F to RJ45 (8P8C)	1.85	1.69	1.49

BOMAR

## "EZ" RJ45 Connector

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

Part No.	Mir.	Part No.	1	10	100	1000
158115	RJ45 (8P8C)		\$1.65	\$1.49	\$1.35	\$1.19



\* AMP = AMP | FST = FutureSmart | GCE = GC Electronics | JVP = Jameco ValuePro | KYC = Kycon | MOL = Molex | + Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Modular Couplers and Adapter

\*Web Code: XAH



Fig. 1  
W: 1.5"  
H: 0.9"  
D: 0.7"

Fig. 2  
W: 1.7"  
H: 1.0"  
D: 0.9"

Fig. 3  
W: 1.1"  
H: 0.8"

Style 1 Reverse wiring for telephone systems

Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	Pricing		
			1	10	100
71757	6P6C modular coupler, Style 1, RJ11	1	\$ .95	\$ .85	\$ .75
135087	6P6C modular coupler, Style 2, RJ11	1	1.09	.99	.89
181091	6P6C make "T" adapter, Style 2, RJ11	3	.75	.69	.59
118501	8P8C modular coupler, Style 1, RJ45	1	1.75	1.55	1.39
135079	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023	8P8C modular coupler, Style 2 (for CAT 5) RJ45	2	7.95	7.15	6.45

## Keystone-Type Wall Plates

- Size: 2.8"W x 4.5"H
- RJ45 8P8C

\*Web Code: RBH

636965

212960

Part No.	No. of ports	Color	Pricing		
			1	10	100
636965	1	Almond	\$ .95	\$ .85	\$ .75
212978	1	White	.95	.85	.75
212960	4	Ivory	.95	.85	.75
636990	2	White	.95	.85	.75
195565	3	Ivory	.95	.85	.75
637028	4	Almond	.95	.85	.75
195573	4	Ivory	.95	.85	.75

## AMP 8P8C In-Line Coupler

- Panel mount thickness: 0.062" nominal
- Housing: black polyphenylene oxide
- Terminals: 0.018" diameter phosphor bronze with 50µ gold over nickel
- Snaps into 0.595" x 0.765" rectangular wall plate cut-outs



Part No.	Mfr. Part No.	1	10	100
524445	555052-1	\$4.75	\$4.25	\$3.79

## Self-Adhesive Wire Marker

This booklet has 9 pages of self-adhesive wire markers. Per page has 315 labels of the numbers 0-9.

- Label size: 0.21"W x 0.27"H

Part No.	Product No.	1	10
182262	0215WMB-1	\$6.95	\$6.25

## 3M Tape Wire Marker Dispenser

- For marking wires with numerical sequence
- Self-adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W



Part No.	Mfr. Part No.	1	10
159231	STD-0-9	\$41.95	\$37.95



## Wiring Duct

- Light gray • Lead free PVC
- Wide finger slotted wiring duct
- Standard mounting PC holes
- Size: 1.75"W x 1.62"H
- Sold in 6 foot lengths only



Part No.	Description	Price per foot	
		1	10
489230	Duct	\$31.95	\$28.75
489213	Cover	6.95	6.25

## Nylon Cable ID Ties and Tabs

- Nylon cable tie ID marker
- \* Order in multiples of 10

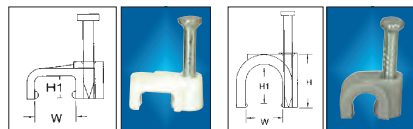
Part No.	Size	1	10	100
135175	2.0"L x 0.8"W x .02"T+	* .12	* .12	* .10
182705	1.5"L x 0.75"W+	* .07	* .07	* .05

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[www.Jameco.com/Clearance](http://www.Jameco.com/Clearance)

## Nail-In Cable Clips



190828

190861

- Material: Impact resistant PE
- With nails inserted

For telephone cords; white Order in multiples of 100

Part No.	Cross Ref. No.	W" x H" x H1"	100	1000
190828	NF1.2	.24 x .21 x .15	\$ .02	\$ .01
190836	NF1.6	.31 x .31 x .20	.02	.01

For general round cables; gray Order in multiples of 100

Part No.	Cross Ref. No.	W" x H" x H1"	100	1000
190861	NCO.35N	.14 x .23 x .15	\$ .02	\$ .01
190887	NC1N	.24 x .35 x .26	.02	.01
190895	NC2N	.31 x .45 x .34	.02	.01
190908	NC3N	.39 x .53 x .41	.02	.01

## Nylon Cable Ties

Standard

- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Color: clear (except P/N 182677: white)
- Flammability rating: UL 94V-2

\*Web Code: QAV

Part No.	Tensile Strength	Size (L" x W")	100	1000
70561	18 lbs.	3.1 x 0.10	\$ .04	\$ .03
126544	18 lbs.	4.0 x 0.10	.03	.02
182677	18 lbs.	4.75 x 0.13	.04	.03
182651	18 lbs.	5.5 x 0.13	.11	.10
139150	18 lbs.	8.0 x 0.10	.04	.02
182669	18 lbs.	8.0 x 0.13	.08	.05
182685	18 lbs.	8.0 x 0.18	.04	.03
70907	40 lbs.	5.8 x 0.10	.08	.07
190756	40 lbs.	10.0 x 0.14	.09	.07
190772	40 lbs.	11.0 x 0.19	.09	.07
190764	40 lbs.	13.0 x 0.14	.10	.08

Weather Resistant

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use

104142

UV Resistant

Part No.	Tensile Strength	Size (L" x W")	100	1000
139125	18 lbs.	3.0 x 0.90	\$ .03	\$ .01
104142	18 lbs.	4.0 x 0.10	.05	.03
104134	40 lbs.	5.8 x 0.10	.08	.05
190782	40 lbs.	8.0 x 0.13	.11	.08
190800	40 lbs.	10.0 x 0.14	.18	.13
190802	40 lbs.	13.0 x 0.14	.19	.17

## Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701: 1000 pcs. (4"L); 10 colors  
150412: 850 pcs. total 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors

Part No.	Wt. (lbs.)	1	10	25
145701	0.7	\$9.95	\$8.95	\$7.95
150412	1.7	17.95	16.95	15.95

## Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Spring return action • Metal



Part No.	Cross Ref. No.	1	5	10
182298	0302TG-7	\$19.95	\$17.95	\$15.95



## Professional Modular Connector Crimping Tool

- 6mm and 12mm stripping guide
- Spring return action
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Mfr. Part No.	1	10	25
181148	HT200	\$54.95	\$49.49	\$44.55

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Cable Accessories, Braided Sleeves & Heat Shrink Tubing

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

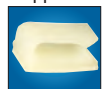
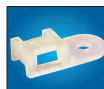
## Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps

- Material: UL approved nylon 66, 94V-2



\* Web Code: FBE



182942/171214  
71408/71395/71386

70595

182301/173761

182334

173737

71062

Part No.	Cross Ref. No.	Description	1	10	100	1000
182942	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	...	...	...	...
171214	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	...	...	...	...
71408	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	...	...	...	...
71395	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	...	...	...	...
71386	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	...	...	...	...
70595	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	...	...	...	...
182301	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	...	...	...	...
173761	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	...	...	...	...
182318	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	...	...	...	...
182376	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	...	...	...	...
182334	0520FC-1	Cable tie mount, self adhesive, 0.1"D	...	...	...	...
173729	UC0.5	Cable clamp for 3/16" cable	...	...	...	...
173737	UC1	Cable clamp for 1/4" cable	...	...	...	...
71062	MCV-100R	Cable ID tie (1/4" x 0.1"W) with tab (.98"W x .31"H)	...	...	...	...

\* Order in multiples of 10



## FLEXO® Braided Sleeve

- Color: black
- Length: 25 feet
- Cut and abrasion resistant
- Maintains properties across wide temperature range
- UV resistant

### Flexo® Clean-Cut Braided

- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

Part No.	Mfr. Part No.	Min/Max Flex (ins.)	Inside Dia. (ins.)	Outside Dia. (ins.)	1	10
162157	CCP0.25BK25	5/32 - 7/16	0.250	0.440	\$15.95	\$14.49
162165	CCP0.50BK25	1/4 - 3/4	0.500	0.750	17.95	15.95

\* Web Code: ECQ



### Flexo® Pet Braided

- Braided from 10 mil polyethylene terephthalate monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

Part No.	Mfr. Part No.	Min/Max Flex (ins.)	Inside Dia. (ins.)	Outside Dia. (ins.)	1	10
693679	PTN0.25BK25	1/8 - 7/16	0.250	0.440	\$7.95	\$6.95
693687	PTN0.38BK25	3/16 - 5/8	0.375	0.425	11.95	10.95
695383	PTN0.50BK25	1/4 - 3/4	0.500	0.550	11.95	10.75

\* Web Code: TFP



## RIP-TIE® Rip-Tie Lite Cable Wraps

- Patented one end permanently attaches to the cable and the other end has a pull tab
- 10 per pack
- Made of the best quality hook and loop touch fastener tested for 10,000 closures with no loss of holding strength



Part No.	Product No.	1	10
700699	1/2"W x 8"L, rainbow	\$9.95	\$8.95
700701	1/2"W x 8"L, black	9.95	8.95

## Round-Type Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life



- Order in multiples of 10

Part No.	Cable Type	Length (in.)	10	100	1000
182351	SVI/SVT	.43	\$0.08	\$0.07	\$0.05
182369	SJ/SJT; 16 AWG	.58	.12	.10	.08
182377	SJC; 18 AWG	.58	.07	.05	.04

## Bushing Assembly Tool



Part No.	Description	1	10
73471	Bushing tool	\$34.95	\$29.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Polyolefin Heat Shrink Tubing

**FIT221/FIT221B Series**

Insulation from environment and resistance from water fungus and UV light. Use for insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: 10<sup>14</sup>Ω-cm



### Clear (4 foot pieces)

\* Web Code: VAH

Part No.	Mfr. Part No.	Min./Max. ID (ins.)	1	10	100
419119	FIT221-3/64	.046/.023	\$.85	\$.79	\$.59
419135	FIT221-1/16	.063/.031	.95	.85	.75
419178	FIT221-1/8	.125/.062	1.19	1.05	.95
419215	FIT221-1/4	.250/.125	2.25	1.95	1.75
419231	FIT221-3/8	.375/.187	1.79	1.59	1.39
419274	FIT221-3/4	.750/.375	2.69	2.49	—

### Black (4 foot pieces)

419101	FIT221B-3/64	.046/.023	\$.89	\$.79	\$.69
419127	FIT221B-1/16	.063/.031	.99	.89	.79
419143	FIT221B-1/8	.125/.062	.99	.89	.79
419160	FIT221B-1/4	.250/.125	1.85	1.69	1.49
419186	FIT221B-3/8	.375/.187	1.95	1.75	1.59
419223	FIT221B-1/2	.500/.250	1.95	1.75	1.59

### Black (6 inch pieces)

419400	FIT221B-1/16	.063/.031	36	\$14.75	\$13.29
419442	FIT221B-1/8	.125/.062	28	12.95	11.49
419522	FIT221B-1/4	.250/.125	14	12.95	11.49
419549	FIT221B-3/4	.750/.375	12	14.75	13.29
419565	FIT221B-1	1.00/.500	8	14.75	13.29

## Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black
- Shrink temp.: 90°C

### Polyolefin Tubing

- Only sold in 10' & 100' lengths

\* Web Code: HST

Part No.	Dia. Before (mm)	Length (ft.)	1	25
644834	0.12" (3)	10	\$1.95	\$1.75
644851	0.12" (3)	100	12.65	11.49
644869	0.16" (4)	10	2.15	1.95
644877	0.16" (4)	100	19.95	17.95
644906	0.20" (5)	10	2.45	2.19
644914	0.20" (5)	100	21.45	19.29
644931	0.24" (6)	10	2.55	2.29
644949	0.24" (6)	100	21.75	19.59
644957	0.31" (8)	10	2.95	2.65
644965	0.31" (8)	100	31.95	28.75
644973	0.43" (11)	10	3.95	3.55
644981	0.43" (11)	100	35.95	32.35
644990	0.59" (15)	10	4.95	4.45
645001	0.59" (15)	100	39.95	35.95

### Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Flame retardant
- Temp. range: -45°C to +125°C
- Precut 39" length (1 meter)

72063

Part No.	Dia. Before (mm)	1*	10*	100*
71327	.059" (1.5)+	\$5.55	\$4.49	\$4.45
71871	.079" (1.5)	.55	.49	.45
71280	.098" (2.5)	.95	.85	.75
72063	.197" (5.0)+	.85	.75	.69

## Quick and Easy Search

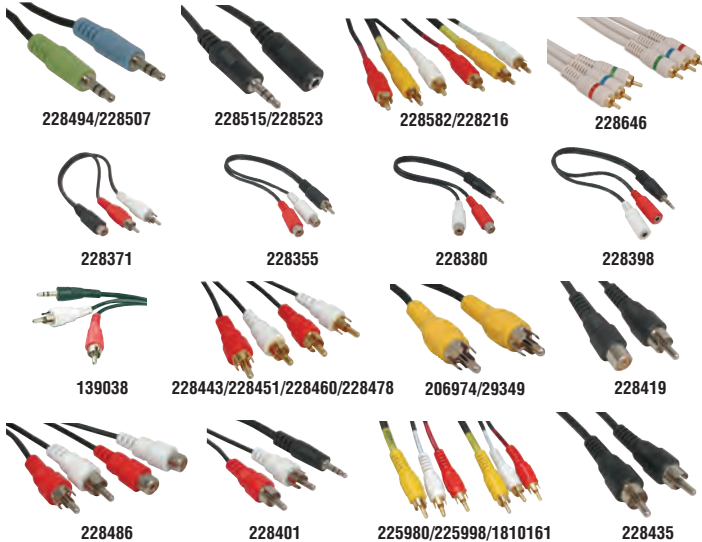
Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.



JAMECO ValuePro

## Audio/Video Cables and Adapters

★ Web Code: QAP



### 3.5mm Audio Patch Cables

Part No.	*Mfr.	Description	1	10	100
1944855	+	3' 4" 3.5mm mono male to male plug (black)	\$1.25	\$1.09	\$ .99
228494	JVP	6' 3.5mm stereo male to male plug (black)	1.45	1.29	1.15
228515	JVP	6' 3.5mm stereo male plug to female jack (black)	2.35	2.09	1.89
228398	JVP	6' 3.5mm stereo Y-cable F jacks (2) to M plug	2.35	2.09	1.89
228380	JVP	6' 3.5mm stereo Y-cable M plug to RCA F jacks (2)	1.95	1.75	1.59
228507	JVP	12' 3.5mm stereo male to male plug (black)	1.95	1.75	1.59
228523	JVP	12' 3.5mm stereo male plug to female jack (black)	2.49	2.25	1.95
2077538	+	20' 3.5mm stereo male plug to female jack (black)	2.75	2.49	2.25

JAMECO ValuePro

### Component Video and Audio Cable

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



Part No.	Description	1	10	25
228620	6' component video RGB cable	\$4.95	\$4.49	\$3.95
229403	6' component video RGB and stereo audio cable	11.95	10.95	9.95

### Audio/Video BNC to RCA Cables & Adapter

Fully molded nickel connectors. Used for displays that require a single BNC connection from a PAL/NTSC video source.



★ Web Code: AVC

Part No.	Description	1	10	25
683059	6' BNC to RCA cable (RG-59)	\$3.95	\$3.49	\$2.95
1945057	6' BNC to BNC video cable w/ BNC to RCA male adapter	3.95	3.49	2.95

### RGB Video Cables

- 75Ω coaxial cable
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Color: black



Part No.	Description	1	10	25
73648	6' cable	\$14.95	\$13.49	\$11.95
118068	10' cable	8.95	7.95	6.95

### Video/Audio Patch Cables

Part No.	*Mfr.	Description	1	10	25
2081211	MST	4' RCA video component (3) male to (3) male	\$8.95	\$7.95	\$6.95
2081852	JVP	6' RCA video component (3) male to (3) male	9.95	8.95	7.95
228216	JVP	3' stereo video patch cable, gold plated	1.55	1.39	1.25
228646	JVP	25' component video RGB cable	14.95	13.49	11.95
228582	JVP	50' stereo video patch cable, gold plated	12.95	11.75	10.49

### RCA Cables

Part No.	*Mfr.	Description	1	10	100
228371	JVP	6' RCA M plugs (2) to RCA F jack	\$1.35	\$1.19	\$1.09
228355	JVP	6' RCA M plug to (2) RCA F jacks	1.95	1.75	1.59
228380	JVP	6' RCA F jacks (2) to 3.5mm stereo plug	1.95	1.75	1.59
1810161	JVP	3' RCA (3) male (3) male plugs, gold plated	2.95	2.65	2.39
228443	JVP	3' stereo RCA (2) male to (2) male plugs, gold plated	1.75	1.59	1.39
183312	JVP	4' RCA male to male plug (black)	1.35	1.19	.99
206974	JVP	4' RCA male to male plug (yellow)	.99	.89	.79
139038	+	5' RCA M plugs (2) to 1/8" stereo M plug	1.95	1.75	1.59
682793	+	6' RCA mono M plugs (2) to 1/8" stereo M plug	1.55	1.39	1.25
1949470	+	6' RCA male to male, gold plated	.95	.85	.75
106375	JVP	6' RCA male to male plug	1.75	1.59	1.25
2082417	JVP	6' RCA male to male plug (yellow)	1.95	1.75	1.49
228419	JVP	6' mono RCA male plug to female jack	1.95	1.75	1.49
228486	JVP	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.09	.99
228451	JVP	6' RCA stereo (2) male to (2) male plugs, gold plated	1.95	1.75	1.49
228401	JVP	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.65	1.49	1.35
1810152	+	6' RCA (3) male (3) male plugs, nickel plated	2.95	2.65	2.39
29349	JVP	10' RCA male to male plug (yellow)	2.05	1.89	1.65
228460	JVP	12' RCA stereo (2) male to (2) male plugs, gold plated	2.69	2.45	2.19
225980	JVP	12' RCA (3) male to (3) male plugs, gold plated	3.95	3.55	3.19
225998	JVP	20' RCA (3) male to (3) male plugs, gold plated	6.95	6.25	4.95
228435	JVP	25' mono RCA male to male plug, nickel plated	2.25	1.95	1.79
228478	JVP	25' RCA stereo (2) male to (2) male plugs, gold plated	2.95	2.65	2.39

JAMECO ValuePro

### S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders & DVD players



Part No.	Description	1	10	100
229809	S-video 4-pin mini DIN female to female jack	\$1.45	\$1.29	\$1.15
683075	S-video male plug to RCA video female jack (blue)	1.95	1.75	1.49
229391	S-video male plug to RCA video female jack	2.95	2.65	2.39
228591	6' S-VHS video cable, gold plated	2.15	1.95	1.79
228611	25' S-VHS video cable, gold plated	3.95	3.55	3.19

★ Web Code: TBL

JAMECO ValuePro

### DVI Cables

Digital Video Interface (DVI) provides a high-speed digital connection for visual data types that are display technology independent. The DVI specifications meet the needs of all segments of the PC industry and will enable these different segments to unite around one monitor interface standard.



Part No.	Description	1	10	25
1944257	DVI to VGA 2 meters	\$8.95	\$7.95	\$6.95
320346	Single link 2 meters	3.95	3.49	3.15
1944265	Dual link 3 meters	13.95	12.49	11.25

★ Web Code: EEM

## Web Enabled Catalog

Enter web codes online for additional product listings & specifications.  
Look for the web code box on the home page. [www.Jameco.com/More](http://www.Jameco.com/More)

\* JVP = Jameco ValuePro | MST = Monster | + = Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# HDMI Cables, Adapters, Audio Plugs & Jacks

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO ValuePro

## HDMI Cables & Adapters

\*Web Code: DEM

High Definition Multimedia Interface (HDMI) is the industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV, and plasma monitor.



Part No.	Product No.	Description	1	10	25
1944142	10HM-01128-01	Male to male, 1 meter	\$10.95	\$9.95	\$8.95
1944151	10HM-01128-02	Male to male, 2 meters	12.95	11.49	9.95
1944169	10HM-01128-05	Male to male, 5 meters	17.95	15.95	14.49
1944177	10HM-15128-01	Male to DVI-D single link, 1 meter	9.95	8.95	7.95
1944185	10HM-15128-02	Male to DVI-D single link, 2 meters	11.95	10.95	9.95
1944193	10HM-15128-05	Male to DVI-D single link, 5 meters	18.95	16.95	15.25
1944206	30HM-15228-MO	HDMI M to DVI F video adapter	10.95	9.95	8.95
1944214	30HM-15328-MO	HDMI F to DVI M video adapter	10.95	9.95	8.95
1944222	30HM-01100	M to M HDMI gender changer	8.95	7.95	7.25
1944231	30HM-01200	F to M HDMI gender changer	8.95	7.95	7.25
1944249	30HM-01400	F to F HDMI gender changer	8.95	7.95	7.25

## Stereo, Phone, Audio Plugs & Jacks

\*Web Code: AJS

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	1	10	100
297297	Switchcraft	850X	1	2.5mm mono phone, audio plug, black plastic	25.8L x 6.35 Dia.	\$3.49	\$3.15	\$2.79
281869	Switchcraft	750	2	3.5mm mono audio plug, plastic	41.5L x 5.7 ID	2.95	2.65	2.39
296956	Switchcraft	70	3	1/4" commercial phone plug, metal	84.8L x 9.7 ID	3.95	3.55	3.19
297060	Switchcraft	170	4	1/4" commercial phone plug, metal	69.7L x 17.46 Dia.	6.95	6.25	5.65
297115	Switchcraft	228	5	1/4" flat phone plug, right angle, black	42.1L x 25.4 Dia.	3.95	3.55	2.95
281754	Switchcraft	250	6	1/4" mono phone audio plug, plastic	73.7L x 7.6 ID	3.45	3.09	2.79
281762	Switchcraft	267	7	1/4" commercial phone plug, black plastic	73.7L x 7.6 ID	4.95	4.49	3.95
281789	Switchcraft	297	8	1/4" stereo phone audio plug, metal	73.7L x 7.6 ID	4.95	4.49	3.95
281771	Switchcraft	280	3	1/4" mono phone audio plug, metal	73.7L x 7.6 ID	3.85	3.49	3.15
229876	ValuePro	JR0101BLK	9	RCA plug, metal (black stripes)	61.7L x 7.0 ID	1.95	1.75	1.49
229868	ValuePro	JR0101R	9	RCA plug, metal (red stripes)	61.7L x 7.0 ID	2.25	1.95	1.75
229884	ValuePro	JR0101W	9	RCA plug, metal (white stripes)	61.7L x 7.0 ID	2.25	1.95	1.75
230287	ValuePro	JR0101Y	10	RCA plug, yellow housing, gold plated	61.7L x 7.0 ID	.95	.85	.75
229921	ValuePro	JR1625BLK	11	RCA plug, plastic, black (5 pk)	51.5L x 5.0 ID	1.45	1.29	1.15
229913	ValuePro	JR1625W	12	RCA plug, plastic, white (5 pk)	51.5L x 5.0 ID	.95	.85	.75
229930	ValuePro	JR1625R	13	RCA plug, plastic, red (5 pk)	51.5L x 5.0 ID	1.45	1.29	1.15
281800	Switchcraft	3502	14	RCA phone plug, metal	33.8L x 5.0 ID	1.95	1.75	1.59
281818	Switchcraft	3502A	15	RCA phono audio plug, nickel	42.4 x 7.3 ID	2.25	1.95	1.75
281834	Switchcraft	41	16	3.5mm audio jack	7.8L x 5.9 Dia.	1.85	1.69	1.49
568392	Switchcraft	35R4PC4BH3	17	3.5mm stereo jack, rt. angle horz., threaded	6.0H x 11.0W x 8.0D	1.49	1.35	1.19
1766180	Switchcraft	35R4PC4BHN2	17	3.5mm stereo jack, rt. angle horz., non-threaded	5.0H x 12.0W x 15.0D	1.69	1.49	1.35
2081772	Kycon	ST3120-3-WHT	18	3.5mm stereo jack, rt. angle horz., non-threaded	10.45H x 12.0W x 6.8D	.49	.45	.39
1766198	Switchcraft	35R4PC4BV4	19	3.5mm stereo jack, rt. angle ver., threaded	12.3H x 8.1W x 14.0D	1.75	1.59	1.45
2081334	Shogyo	354-3PY	17	3.5mm mono jack, rt. angle horz., threaded	6.35H x 12.0W x 14.0D	1.25	1.09	.99
2081238	Shogyo	SCJ330	20	3.5mm mono audio jack	10.6H x 9.0W x 21.7D	1.95	1.75	1.55
281738	Switchcraft	11	21	1/4" mono phone audio jack	12.8L x 9.1 Dia.	1.85	1.69	1.49
296892	Switchcraft	12A	22	1/4" mono phone audio jack, metal	31.7L x 9.4 Dia.	1.79	1.59	1.45
296905	Switchcraft	13B	22	1/4" mono phone audio jack, metal	30.6L x 9.4 Dia.	1.89	1.69	1.55
281746	Switchcraft	12B	22	1/4" stereo phone audio jack	14.7L x 9.1 Dia.	1.89	1.69	1.55
297537	Switchcraft	N111	19	1/4" phone jack, panel mount, threaded	34.8L x 15.87 Dia.	1.95	1.75	1.59
297001	Switchcraft	121	23	1/4" mono phone audio jack, metal	63.5L x 12.7 Dia.	7.95	6.95	6.25
297027	Switchcraft	131	23	1/4" in-line extension jack, black	63.5L x 6.75 ID	7.95	6.95	6.25
297123	Switchcraft	236	24	1/4" stereo phone audio jack, right angle, metal	46.4 x 15.9 ID	6.95	6.25	5.65
1581564	Keystone	901	25	RCA jack, PCB mount, right angle, black	11.8H x 10.6W x 6.8D	.49	.45	.39
1537150	Various	AJ842G2	26	RCA jack, PCB mount, rt. angle, red/white (2)	27.9H x 10.2W x 13D	.39	.35	.25
2076359	Various	AJ842G3	27	RCA jack, PCB mount, rt. angle, red/white/yellow (3)	40.6H x 22.9W x 21.6D	.99	.85	.69
220581	ValuePro	KY-006-1(W)	25	RCA jack, PCB mount, white	11.2H x 14.2W x 12.2D	.65	.59	.55
220556	ValuePro	KY-006-1(R)	25	RCA jack, PCB mount, red	11.2H x 14.2W x 12.2D	.65	.59	.55
220572	ValuePro	KY-006-1(B)	25	RCA jack, PCB mount, black	11.2H x 14.2W x 12.2D	.39	.35	.25
220564	ValuePro	KY-006-1(Y)	25	RCA jack, PCB mount, yellow	11.2H x 14.2W x 12.2D	.39	.35	.29
2076332	Various	SCJ-0358-YLW	28	RCA jack, PCB mount, yellow	9.9H x 19.1W x 13.0D	.45	.35	.25
169502	Various	SCJ-0358-BLK-R	28	RCA jack, PCB mount, black	10.2H x 21.6W x 12.7D	.55	.49	.45
237016	Various	RCJ-61223344	29	RCA jack, PCB mount, red/white/yellow	50.8H x 11.4W x 27.9D	.75	.65	.49
319249	Velleman	CA066	30	RCA jack, 2 pair stereo, panel mount, red/white	73.7H x 12.2W x 24.9D	.95	.85	.75
159485	Various	CS7021-DN-BLK-R	31	RCA jack, panel mount, black	21.3W x 9.7H	.95	.85	.75
172340	Various	CS7021-DN-RD-R	31	RCA jack, panel mount, red	21.3W x 9.7H	.85	.75	.69

† Closed circuit    ⚡ Blue Part No. = Limited Quantity Available



RoHS compliant product

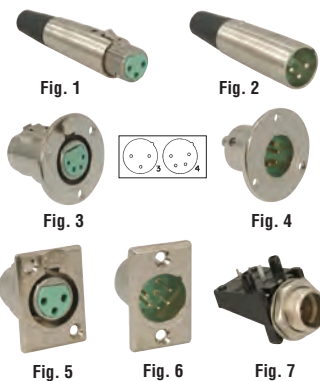
+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

## Microphone (XLR) Connectors

Part No.	Manufacturer	Product No.	Fig.	Description	Dimensions (mm)	1	10	25
277026	Switchcraft	A3F	1	3-pin female, metal	82.5 x 5.3 Dia.	\$5.25	\$4.75	\$4.25
281560	Switchcraft	A3M	2	3-pin male, metal	70.3 x 5.3 Dia.	4.55	3.95	3.65
297422	Switchcraft	C3F	3	3-pin female, metal, panel mount	36.9 x 36.5 Dia.	7.95	7.25	6.49
297431	Switchcraft	C3M	4	3-pin male, metal, panel mount	30.2 x 36.3 Dia.	4.95	4.49	3.95
281640	Switchcraft	D3F	5	3-pin female, metal, panel mount	27.0W x 36.3H x 30.6D	5.95	5.39	4.85
281607	Switchcraft	A5F	1	5-pin female, metal	82.0 x 4.7 Dia.	13.95	12.55	11.29
281615	Switchcraft	A5M	2	5-pin male, metal	70.2 x 5.3 Dia.	10.95	9.95	8.95
281623	Switchcraft	A6F	1	6-pin female, metal	80.2 x 4.6 Dia.	17.95	15.95	14.35
281703	Switchcraft	D6F	5	6-pin female, metal, panel mount	27.0W x 26.3H x 30.6D	10.95	9.95	8.95
281711	Switchcraft	D6M	6	6-pin male, metal, panel mount	27.0W x 36.3H x 30.6D	9.95	8.95	7.95
1775617	Switchcraft	TRA3M	7	3-pin female, PCB mount	15.4W x 15.1H x 27.0D	7.75	6.95	6.25
319011	ValuePro	250-710	2	3-pin male, metal	70.6L x 7.31D	2.95	2.65	2.39
319003	ValuePro	250-720	1	3-pin female, metal	81.5L x 7.43D	2.25	1.95	1.75
319038	ValuePro	250-705	5	3-pin female, metal, panel mount	26.2W x 35.5H x 35.9D	3.45	2.95	2.65

★ Web Code: ABV



## Audio Adapters

Part No.	Manufacturer	Product No.	Description	1	10	100
309665	ValuePro	251-175	3.5mm stereo F jack to 3.5mm mono M plug	\$ .39	\$ .35	\$ .29
228283	ValuePro	251-120	RCA F jack to mono 1/4" M plug	.69	.59	.55
228267	ValuePro	251-116	RCA F to F jack coupler, gold plated	.59	.55	.49

★ Web Code: KBQ



## AMP CPC Contacts

Type III+ Snap-In Crimp Pins w/ Retention Spring

- Finish:
  - A: 30µ" gold over nickel
  - B: Tin-lead
  - C: 15µ" gold over nickel
- Crimp type except \*P/N 526424 (solder type)
- Contact body – brass or phosphor bronze

Part No.	Mfr. P/N	AWG	Finish	Type	1	10
526475	1-66360-1	18-14	A	Socket	\$.85	\$.75
526441	1-66361-1	18-14	A	Pin	.49	.45
859835	66361-3	18-14	C	Pin	.55	.49
526424	66180-1	18-16	A	Pin*	.85	.75
526432	66181-1	18-16	A	Socket	.95	.85
526459	66103-3	24-20	C	Pin	.49	.45
526563	1-66103-5	24-20	B	Pin	.49	.45
526361	1-66103-7	24-20	A	Pin	.59	.49
526379	66105-3	24-20	C	Socket	.69	.59
526504	1-66105-6	24-20	B	Socket	.49	.45

### Size 20DF Contacts

- Contact body: brass
- Finish: A: 30µ" gold over nickel; B: gold flash over nickel



Part No.	Mfr. P/N	AWG	Finish	Type	10	100
223221	1-66505-0	28-24	B	Socket†	\$ .19	\$ .15
223247	745253-6	26-22	A	Socket†	.19	.15
223298	66504-9	24-20	A	Socket	.19	.15
223255	1-66504-0	24-20	B	Socket	.19	.15

† With insulation support

## AMP Cable Entry Seal

Used with jacketed cables to provide an environmentally sealed wire-to-wire connector system. Can be used with either plugs or receptacles.

- Internal sleeve: nylon
- Outer tubing: polyolefin
- Heat shrinkable

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Shell Size	Sealing Range (Dia.)	1	10
852043	54010-1	11	.26" - .60"	\$7.95	\$6.95

## AMP CPC Circular Plastic Connectors

Series 1 — Standard density, signal and low-current applications

- Accepts type III+; high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)

★ Web Code: WBK



### Receptacles

Part No.	Mfr. P/N	Style	Gender	1	10
495091	206429-1	11-4	Reverse	\$2.95	\$2.65
495218	206430-1	11-4	Reverse	1.95	1.75
495162	206061-1	11-4	Standard	2.25	1.95
495293	211401-1	13-7	Standard	4.95	4.49
421382	206036-1	17-16	Standard	2.59	2.35
495146	206043-1	17-14	Reverse	2.59	2.29

### Plugs

Part No.	Mfr. P/N	Style	Gender	1	10
495322	206037-1	17-16	Standard	\$3.49	\$3.15
495031	206044-1	17-14	Reverse	2.95	2.65
495103	206708-1	13-9	Standard	2.95	2.65
421374	211399-1	13-7	Standard	2.95	2.65
495082	206060-1	11-4	Standard	2.79	2.49

## AMP Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)



★ Web Code: PCB

Part No.	Mfr. P/N	Material	Shell Size	Cable O.D. (max.)	1	10
494047	206062-3	Plastic	28	.329"	\$3.49	\$3.15
494039	206062-1	Plastic	28	.329"	3.75	3.35
494063	206070-1	Plastic	17	.453"	3.75	3.35
494055	206966-1	Plastic	13	.453"	3.75	3.35
749919	206966-7	Metal	13	.453"	3.95	3.55
494101	208945-5	Metal	14	.562"	7.95	6.95
494119	208945-7	Metal	22	.750"	10.95	9.95

## AMP Extraction Tool

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

Part No.	Mfr. Part No.	1	10
841838	305183	\$17.95	\$15.95

## D-Sub Pin Insertion/Extraction Tools

19094/527582/223335: Plastic body; metal tips

223327: Handle with .050" hex wrench and interchangeable tips

★ Web Code: BCD

Part No.	Mfr.	Product No.	1	10
19094	ValuePro	500-200	\$3.95	\$3.49
527582	AMP	91067-1	5.95	5.49
223335	AMP	91067-2	7.49	6.75
223327	AMP	91285-1	19.95	17.95

## D-Sub Crimping Tool

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
- Coiled spring return • Size: 7.3"L x 1.5"W

Part No.	Mfr. Part No.	1	5	25
99443	HT202A	\$8.95	\$7.95	\$6.95

## AMPLIMITE™ .050" Series 2 Type B Header

- Right angle plug
- Housing: PBT black
- Cap shields: zinc, nickel over copper
- Contacts: phosphor bronze, 0.76µm gold in contact area, tin in solder area

★ Web Code: BCV

Part No.	Mfr. P/N	Positions	1	10
749417	2-5174225-5	68	\$29.95	\$27.95

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## D-Subminiature Connectors

### Right Angle PCB Mount Metal .318" Setback – Tin plated short style

\*Web Code: FAN



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
1952839	Foxconn	D-SUB-9M†	9	M	\$.55	\$.45	\$.35
104943	ValuePro	DB9P318	9	M	\$.69	\$.59	\$.49
614441	AMP	747840-4†	9	M	1.75	1.55	1.35
614125	AMP	745781-4	9	F	2.69	2.39	2.15
2076682	Various	DB9S318	9	F	\$.65	\$.55	\$.45
104952	ValuePro	DB9S318	9	F	\$.75	\$.65	\$.55
614504	AMP	747844-4†	9	F	1.95	1.75	1.49
71124	ValuePro+	DA15P318†	15	M	\$.69	\$.59	\$.49
168743	ValuePro	HDDB15S318*	15	M	\$.79	\$.69	\$.59
77956	ValuePro+	DA15S318	15	F	\$.79	\$.69	\$.59
614539	AMP	747845-4†	15	F	2.25	1.95	1.75
1952273	Kycon	HDDSUB-15S†*	15	F	\$.75	\$.65	\$.55
71466	ValuePro+	HDDB15S318*	15	F	\$.89	\$.79	\$.69
1945364	Various	DSUB-25M†	25	M	\$.65	\$.55	\$.45
15150	ValuePro	DB25P318	25	M	\$.75	\$.65	\$.55
614230	AMP	745238-4	25	M	5.49	4.95	4.45
265439	Various	DSUB-25F	25	F	\$.75	\$.65	\$.55
15182	ValuePro	DB25S318	25	F	\$.85	\$.75	\$.65
446483	Cinch	DBKL-25SAT-E25†	25	F	1.09	\$.95	\$.85
614141	AMP	745783-4	25	F	3.19	2.89	2.59
614547	AMP	747846-3†	25	F	1.49	1.35	1.19
71706	ValuePro+	DC37P318†	37	M	1.15	\$.95	\$.89
78182	ValuePro+	DC37S318†	37	F	1.19	1.05	\$.89

\* High Density † Without female jack screws (P/N 172603, pg 69)

### Metal Solder-Cup

\*Web Code: EAB



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
15748	ValuePro	1001-9P-R	9	M	\$.55	\$.45	\$.35
222990	AMP	747904-2	9	M	2.25	1.95	1.75
222957	AMP	747904-4†	9	M	2.49	2.25	1.95
15771	ValuePro	500-109	9	F	\$.65	\$.55	\$.45
223052	AMP	747905-2	9	F	2.25	1.95	1.75
223036	AMP	747905-4†	9	F	2.75	2.35	2.09
15035	ValuePro	1001-15P-R	15	M	\$.69	\$.55	\$.45
223001	AMP	747908-2	15	M	2.89	2.55	2.25
15078	ValuePro	1002-15P-R*	15	M	\$.95	\$.75	\$.59
15052	ValuePro	1001-15S-R	15	F	\$.75	\$.59	\$.49
223061	AMP	747909-2	15	F	4.59	3.95	3.45
164823	ValuePro	1002-15S-R*	15	F	\$.95	\$.75	\$.59
15115	ValuePro	1001-25P-R	25	M	\$.95	\$.79	\$.69
223010	AMP	747912-2	25	M	3.25	2.95	2.65
222973	AMP	747912-4†	25	M	3.49	3.15	2.85
482708	Amphenol	EDB25S	25	F	1.19	1.09	\$.89
458126	ValuePro	DB-25P1	25	M	4.59	4.15	3.75
15157	ValuePro	500-125	25	F	\$.95	\$.79	\$.69
223079	AMP	747913-2	25	F	3.75	3.15	2.65
223044	AMP	747913-4†	25	F	4.45	3.95	3.65
203799	ValuePro+	1002-26P*	26	M	\$.85	\$.69	\$.55
203782	ValuePro	1002-26S-R*	26	F	\$.95	\$.75	\$.59
639630	Amphenol	EDC37P	37	M	\$.85	\$.65	\$.55
15473	ValuePro	1002-37P	37	M	1.35	1.15	\$.95
223028	AMP	747916-2	37	M	4.95	4.45	3.95
222981	AMP	747916-4†	37	M	4.95	4.49	3.95
482724	Amphenol	EDC37S	37	F	\$.95	\$.75	\$.55
15500	ValuePro	GC028-R	37	F	1.25	1.09	\$.95
223087	AMP	747917-2	37	F	6.75	5.95	5.25
15676	ValuePro	GC029-R	50	M	1.95	1.69	1.49
482732	Amphenol	EDD50P	50	M	\$.95	\$.79	\$.65
482741	Amphenol	EDD50S	50	F	1.09	\$.85	\$.59
15691	ValuePro+	GC030	50	F	1.69	1.39	1.15

\* High Density † Zinc plated shell 1 With standard mounting hole

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

### Right Angle PCB Mount

#### Metal .590" Set Back – Tin plated long style

\*Web Code: HAN



• Current rating: 1A

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
104970	ValuePro	DB9P590	9	M	\$.95	\$.85	\$.75
104978	ValuePro	DB9S590	9	F	\$.95	\$.85	\$.75
104985	Astron	DA15P590†	15	M	\$.95	\$.75	\$.65
104993	ValuePro+	DA15S590†	15	F	1.19	\$.95	\$.75
189624	Various	DB25P590††	25	M	1.19	\$.95	\$.75
105006	ValuePro	DB25P590	25	M	1.49	1.25	1.09
105013	ValuePro+	DB25S590†	25	F	1.29	1.09	\$.85

† Without female jack screws (P/N 172603, pg 69) †† Without board tabs

### Metal Straight PCB Mount

\*Web Code: SBK

2077491

Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
111692	ValuePro	DB9PPCB	9	M	\$.55	\$.45	\$.35
15781	ValuePro	DB9SPCB	9	F	\$.59	\$.49	\$.39
176760	ValuePro	DA15PPCB	15	M	\$.65	\$.55	\$.45
2077491	Various	DAHD15SPCB*	15	F	\$.55	\$.45	\$.39
176752	ValuePro	DA15SPCB	15	F	\$.65	\$.55	\$.45
15123	ValuePro	DB25PPCB	25	M	\$.75	\$.65	\$.55
15165	ValuePro+	DB25SPCB	25	F	\$.79	\$.69	\$.59
180013	ValuePro	DC37PPCB	37	M	1.09	\$.95	\$.79
180021	ValuePro	DC37SPCB	37	F	1.25	1.09	\$.95

\* High Density

### Crimp-Type

\*Web Code: UBR



Part No.	Manufacturer	Product No.	Contacts	Gender	1	10	100
73189	ValuePro	500-010	9	M	\$.49	\$.39	\$.35
222640	AMP	205204-1	9	M	1.15	\$.95	\$.85
73197	ValuePro	500-110	9	F	\$.55	\$.45	\$.35
222691	AMP	205203-1	9	F	1.09	\$.95	\$.75
222842	AMP	205203-3	9	F	\$.85	\$.75	\$.65
222797	AMP	205204-4	9	M	\$.85	\$.75	\$.65
222703	AMP	205205-1	15	M	1.05	\$.89	\$.79
222658	AMP	205206-1	15	M	1.19	\$.95	\$.79
73200	ValuePro+	G37-15	15	M	\$.55	\$.45	\$.35
180882	ValuePro	1006-15P-R*	15	M	\$.85	\$.75	\$.65
73219	ValuePro	G1G125-R	15	F	\$.65	\$.55	\$.45
222914	AMP	205205-2	15	F	\$.75	\$.65	\$.55
180890	ValuePro	1006-15S*	15	F	\$.85	\$.75	\$.65
222818	AMP	207464-2	25	M	\$.79	\$.65	\$.55
38789	ValuePro	500-027	25	M	\$.65	\$.55	\$.45
38771	ValuePro	500-127	25	F	\$.65	\$.55	\$.45
222922	AMP	207463-1	25	F	\$.95	\$.85	\$.75
222789	AMP	205210-2	37	M	1.95	1.75	1.49
222834	AMP	205212-3	50	M	1.45	1.35	1.25

\* High Density

### IDC Ribbon Cable

\*Web Code: MAP



- Contact material: phosphor bronze
- Terminates with standard D-type connectors

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
109226	ValuePro	MDB9P†	Metal	9	M	1.75	1.49	1.25
12504	ValuePro	CDB9P	Plastic	9	M	2.25	1.95	1.75
1577961	3M	8309-6000	Metal	9	F	4.49	4.25	3.95
109218	ValuePro	MDB9S†	Metal	9	F	1.85	1.65	1.45
12521	ValuePro	CDB9S	Plastic	9	F	2.49	2.25	1.95
614328	AMP	747303-4	Metal	9	F	5.95	5.35	4.79
614387	AMP	747318-41	Plastic	9	F	4.49	3.95	3.49
117382	ValuePro	MDA15P	Metal	15	M	1.75	1.49	1.29

† Requires flat cable w/ .0625" centers 1 With standard mounting holes

Continued on next page



## D-Subminiature Connectors (Continued)

### IDC Ribbon Cable (Continued)

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
12299	ValuePro	CDA15P	Plastic	15	M	\$1.95	\$1.75	\$1.49
116012	ValuePro	MDA15S	Metal	15	F	1.95	1.75	1.49
12319	ValuePro	CDA15S	Plastic	15	F	2.25	1.95	1.75
614344	AMP	747306-2	Metal	25	M	5.95	5.35	4.79
115984	ValuePro	MDB25P	Metal	25	M	2.39	2.09	1.79
12335	ValuePro	CDB25P	Plastic	25	M	1.89	1.75	1.49
115976	ValuePro	MDB25S	Metal	25	F	2.25	1.95	1.75

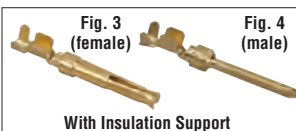
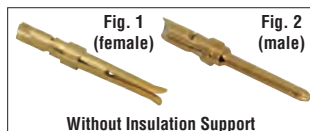
### IDC Ribbon Cable (Continued)

\* Web Code: MAP

Part No.	Manufacturer	Product No.	Shell	Cont.	Gender	1	10	100
12432	ValuePro	CDB25S	Plastic	25	F	\$2.25	\$1.95	\$1.75
614301	AMP	747303-2	Metal	25	F	5.95	4.95	4.49
614336	AMP	747306-1	Metal	37	M	9.95	9.49	8.95
115992	ValuePro	MDC37P	Metal	37	M	2.95	2.65	2.35
12466	ValuePro	CDC37P	Plastic	37	M	3.49	2.95	2.49
116004	ValuePro	MDC37S	Metal	37	F	3.49	2.95	2.49
12483	ValuePro	CDC37S	Plastic	37	F	3.49	2.95	2.49

## D-Sub Contacts

\* Web Code: JDC



### Female Solder Contact - Fig. 1

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	500
223319	AMP	66569-3	18	\$.35	\$.29	\$.25

### Male Solder Contact - Fig. 2

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	500
234982	AMP	66570-3	28-24	\$.29	\$.25	\$.19

### Female Crimp Contacts - Fig. 3

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	1000
223221	AMP	1-66505-0	28-24	\$.19	\$.15	\$.12
223239	AMP	66683-4	28-24	\$.29	\$.25	\$.19
43369	ValuePro	500-155	28-24	\$.12	\$.09	\$.08
185412	ValuePro	1006-PS	28-24	\$.09	\$.07	\$.05
223247	AMP	745253-6	26-22	\$.19	\$.15	\$.12
860001	AMP	66504-4	24-20	\$.09	\$.08	\$.07
223298	AMP	66504-9	24-20	\$.19	\$.15	\$.12
223255	AMP	1-66504-0	24-20	\$.19	\$.15	\$.12
223271	AMP	5-66504-7	24-20	\$.19	\$.15	\$.12
223263	AMP	205201-7	24-20	\$.19	\$.15	\$.12

† Use with 180890, pg 68 # Without insulation support

### Male Crimp Contacts - Fig. 4

Order in multiples of 10

Part No.	Mfr.	Product No.	AWG	10	100	1000
223108	AMP	66507-9	28-24	\$.19	\$.15	\$.12
223095	AMP	1-66507-0	28-24	\$.19	\$.15	\$.12
223124	AMP	66682-4	28-24	\$.19	\$.15	\$.15
43377	ValuePro	500-055	28-24	\$.12	\$.09	\$.08
185421	ValuePro	1006-PP	28-24	\$.09	\$.08	\$.07
223141	AMP	745254-6	26-22	\$.15	\$.12	\$.10
223132	AMP	745254-7	26-22	\$.29	\$.25	\$.19
223191	AMP	66506-9	24-20	\$.19	\$.15	\$.12
223167	AMP	1-66506-0	24-20	\$.19	\$.15	\$.12
838399	AMP	2-66506-4	24-20	\$.09	\$.08	\$.07
223183	AMP	5-66506-9	24-20	\$.19	\$.15	\$.12
223175	AMP	205202-7	24-20	\$.35	\$.29	\$.25

† Use with 180882, pg 68

### Female Crimp Contact (M39029/63-368) - Fig. 5

• Machined

Part No.	Mfr.	Product No.	1	10	100
449351	AMP	205090-1	\$.55	\$.45	\$.39

### Male Crimp Contact (M39029/64-369) - Fig. 6

• Machined

Part No.	Mfr.	Product No.	1	10	100
449342	AMP	205089-1	\$.49	\$.39	\$.35

## AMP D-Sub Enclosure Kit

- Kit includes: (2) 4-40 jack screw (zinc alloy), lack thermoplastic connector insert, steel tin plated inner and outer shell, black PVC enclosure, 62-pin male D-sub connector



Part No.	Product No.	1	10	100
837986	748476-1	\$15.95	\$13.49	\$11.49

## .050" (1.27mm) Pitch LFH™ Matrix 50 Shielded Receptacle

### 60 Circuit, Vertical

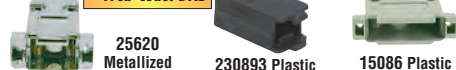
- Same size as 15-pin D-sub for standard panel cut-outs and hardware use
- Volt./current: 40V @ 1A
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing: glass filled polymer, UL94V-0
- Contact: beryllium copper alloy
- Plating: 30μ min. gold over nickel in contact area, 100μ min. tin/lead over nickel in PC tail area, 150μ min. bright tin over nickel all over copper flash on shields



Part No.	Product No.	1	10	100
802222	70928-0002	\$14.75	\$13.95	\$13.39

## D-Sub Connector Hoods

\* Web Code: DAB



- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: Plastic hood with strain relief (gray)

MD Series: Metal coated plastic hood w/ strain relief

MH Series: Die-cast metal hood with strain relief

Part No.	Mfr.	Product No.	Pins	1	10	100
15722	ValuePro	DB9H	9	\$.59	\$.49	\$.39
25620	ValuePro	MDB9H	9	\$.65	\$.55	\$.45
147741	ValuePro	MHDB9	9	1.59	1.39	1.19
230893	AMP	205729-1	9	2.49	2.25	1.95
15019	ValuePro	DA15H	15	\$.75	\$.59	\$.49
25567	ValuePro	MDA15H	15	\$.89	\$.69	\$.59
230914	AMP	205718-1	25	2.19	1.95	1.85
15086	ValuePro	DB25H	25	\$.59	\$.49	\$.39
25604	ValuePro	MDB25H	25	\$.89	\$.69	\$.59
15107	ValuePro	MHDB25	25	2.25	1.95	1.75
15457	ValuePro	DC37H	37	\$.95	\$.79	\$.65
25612	ValuePro	MDC37H	37	\$.95	\$.79	\$.65
230931	AMP	205732-1	50	3.09	2.59	1.95
15660	ValuePro	DD50H	50	1.25	1.09	\$.95

† Plastic clam shell hood (black)

## Hardware for D-Sub Connector Hoods



\* Web Code: PAM

### 4-40 Screw Sets

102808: 4-40 screw

(.385"L) and retainer set

16548: 4-40 x .187" jack screw

(.31" thread), washer, lock washer and nut set

444912: (2) washers, lockwasher, hex nut and screw locks are steel with zinc plating and yellow chromate finish

1575931: (2) nut-4-40 UNC, lock washer, 0.03" dia.

spacer, jack socket screw

\* Order in multiples of 10

Part No.	Mfr.	Product No.	1	10	100
102808	Various	14-553	\$.49	\$.45	
16548	Various	14-522	\$.49	\$.45	
444912	Cinch	D20418-39	1.69	1.49	1.35
1575931	3M	3341-1S	2.49	2.25	1.95



### 4-40 x .187" Jack Screws

\* Order in multiples of 10

Part No.	Mfr.	Prod. No.	Length	1	10	100
839252	AMP	5207953-3	.250"	\$.29	\$.25	\$.19
169931	Various	HS475X118	.275"	\$.19	\$.15	
172603	Various	JS44031L	.315"	\$.19	\$.15	
1582209	Keystone	7230	.315"	\$.25	\$.19	\$.15
1582508	Keystone	7230-5	.315"	\$.29	\$.25	\$.19
102816	Various	556-L15.7	.435"	\$.45	\$.39	\$.35
108987	Various	556-L18	.515"	\$.49	\$.45	\$.39

† Zinc ‡ Chrome

### 4-40 x .187" Standoffs

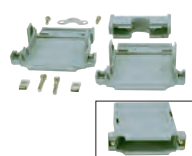
Part No.	Mfr.	Product No.	Length	1	10	100
175636	Various	2052-440-S-0	.187"	\$.25	\$.19	\$.15
102796	Various	14-552-R	.235"	\$.35	\$.29	\$.25

### 4-40 Thumbscrews

Part No.	Mfr.	Product No.	Length	1	10	100
125015	Various	GTW520-R	1.65"	\$.29	\$.25	\$.19
614424	AMP	747784-3	1.92"	1.69	1.55	1.39

## 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



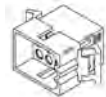
Part No.	Description	1	10	100
34091	25-pin hood	\$.95	\$.85	\$.75

\* D-Sub Junction Shells Online — Enter Web Code JEM

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Power Connectors

- 5.03mm (.198") pitch
- Passive friction lock
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C
- Contact retention to housing: 20 lbs. min.



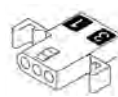
Free Hanging Plug (Matrix)



Panel Mount Plug (In-line)



Free Hanging Receptacle (Matrix)



Panel Mount Receptacle (In-line)



PCB Header (In-line)



PCB Header (Matrix)

### molex® .062" (1.57mm) Plugs

• Current: 5.0A

\* Web Code: HBL

Part No.	Product No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224477	03-06-2011	1	Free hanging	In-line	224397	\$.25	\$.12	\$.09
224485	03-06-2023	2	Free hanging	In-line	224400	.25	.15	.12
229948	03-06-2024	2	Panel mount	In-line	229956	.29	.19	.15
224493	03-06-2032	3	Free hanging	In-line	224418	.39	.35	.25
229964	03-06-2033	3	Panel mount	In-line	229972	.39	.35	.25
224506	03-06-2042	4	Free hanging	In-line	224426	.39	.35	.25
224514	03-06-2044	4	Free hanging	Matrix	224434	.39	.35	.29
224522	03-06-2061	6	Free hanging	Matrix	224442	.39	.35	.29
230041	03-06-2062	6	Panel mount	Matrix	230050	.39	.35	.25
224531	03-06-2092	9	Free hanging	Matrix	224451	.49	.45	.39

### molex® .062" (1.57mm) Receptacles

\* Web Code: HBL

Part No.	Product No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
224397	03-06-1011	1	Free hanging	In-line	224477	\$.25	\$.12	\$.09
224400	03-06-1023	2	Free hanging	In-line	224485	.25	.15	.12
229956	03-06-1022	2	Panel mount	In-line	229948	.25	.19	.15
224418	03-06-1032	3	Free hanging	In-line	224493	.25	.19	.15
229972	03-06-1038	3	Panel mount	In-line	229964	.29	.25	.19
224426	03-06-1042	4	Free hanging	In-line	224506	.35	.29	.25
224434	03-06-1044	4	Free hanging	Matrix	224514	.39	.35	.25
224442	03-06-1062	6	Free hanging	Matrix	224522	.45	.35	.29
230050	03-06-1061	6	Panel mount	Matrix	230041	.45	.35	.29
224531	03-06-1092	9	Free hanging	Matrix	224531	.45	.35	.29

### JAMECO ValuePro .084" (2.13mm) Plugs

Part No.	Product No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
379276	50-84-1060	6	Free hanging	Matrix	379348	\$.25	\$.19	\$.15
379305	50-84-1150	15	Free hanging	Matrix	379372	.35	.29	.25

### JAMECO ValuePro .084" (2.13mm) Receptacles

Part No.	Product No.	Circuits	Type	Pattern	Mating Conn.	1	10	100
379381	10-84-4020	2	PCB	In-line	—	\$.25	\$.19	\$.15
379401	10-84-4030	3	PCB	In-line	—	.25	.19	.15
379428	10-84-4040	4	PCB	In-line	—	.29	.25	.19
379444	10-84-4060	6	PCB	Matrix	—	.35	.29	.25
379461	10-84-4090	9	PCB	Matrix	—	.49	.45	.39
379487	10-84-4120	12	PCB	Matrix	—	.89	.69	.59

### molex®

JAMECO ValuePro

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating



Crimp-Type Male



Solder-Tail Male



Crimp-Type Female



Solder-Tail Female

### .062" (1.57mm) Bulk

Part No.	Mfr.	Product No.	Description	Gender	AWG	10	100	1000
224581	Molex	02-06-2132	Crimp type	M	24-30	\$.09	\$.07	\$.05
224573	Molex	02-06-1132	Crimp type	F	24-30	.09	.07	.05
224565	Molex	02-06-2103	Crimp type	M	18-24	.09	.07	.05
224557	Molex	02-06-1103	Crimp type	F	18-24	.09	.07	.05
227379	Molex	02-06-8103	Solder tail	M	—	.09	.08	.07
227387	Molex	02-06-7103	Solder tail	F	—	.09	.08	.07

### .084" (2.13mm) Bulk

401314	ValuePro	02-08-1002C	Crimp type	F	12-14	\$.09	\$.08	\$.07
401331	ValuePro	02-08-1004C	Crimp type	F	12-14	.09	.08	.07
379524	ValuePro	02-08-1002B	Crimp type	F	16-20	.09	.08	.07

## Power Connector Contacts

\* Web Code: JBL

### .084" (2.13mm) Bulk (Continued)

Part No.	Mfr.	Product No.	Description	Gender	AWG	Order in multiples of 10	10	100	1000
379532	ValuePro	02-08-1004B	Crimp type	F	16-20	\$.09	\$.08	\$.07	
401306	ValuePro	02-08-1002A	Crimp type	F	18-22	.09	.08	.07	
401322	ValuePro	02-08-1004A	Crimp type	F	18-22	.09	.08	.07	
401357	ValuePro	02-08-2004SC	Crimp type	M	12-14	.09	.08	.07	
401373	ValuePro	02-08-2004LC	Crimp type	M	12-14	.09	.08	.07	
379541	ValuePro	02-08-2004SB	Crimp type	M	16-20	.09	.08	.07	
401349	ValuePro	02-08-2004SA	Crimp type	M	18-22	.09	.08	.07	
401365	ValuePro	02-08-2004LA	Crimp type	M	18-22	.09	.08	.07	

### .093" (2.36mm) Bulk

224207	Molex	02-09-2118	Crimp type	M	18-22	\$.12	\$.09	\$.07	
224215	Molex	02-09-1119	Crimp type	F	18-22	.12	.09	.07	
224223	Molex	02-09-2103	Crimp type	M	14-20	.12	.09	.07	
224231	Molex	02-09-1104	Crimp type	F	14-20	.12	.09	.07	
224240	Molex	02-09-2133	Solder tail	M	—	.15	.12	.09	
224258	Molex	02-09-1134	Solder tail	F	—	.15	.12	.09	

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## molex® .093" Power Connector Kits

Kit contains mating sets of housings and pins.  
• Voltage: 250VAC • Temp. range: -40°C to +105°C  
**142181**: • 3 ea. 2-pin plugs & receptacles,  
8 ea. female & male contacts • Current: 12A  
**142201**: • 2 ea. 4-pin plugs & receptacles,  
10 ea. female & male contacts • Current: 9A



\* Web Code: CAV

**Includes:** Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

Part No.	Mfr. P/N	Description	1	10	100
142181	1545	2-pin kit .....	\$4.49	\$3.95	\$3.49
142201	1490	4-pin kit .....	4.49	3.95	3.49

## .098" (2.49mm) Pitch AT Power Connectors

• Voltage rating: 250V AC/DC  
• Current rating: 7A AC/DC  
• Temperature range: -25°C to 85°C  
• Withstanding volt.: 1500V/min.  
• Insulation resistance: 1000MΩ min.  
• For use with motherboards and power supplies • Material: nylon  
**78300**: • Size: 0.93"L x 0.37"W x 0.57"H  
• Material of post: tin-plated brass  
• Diameter of post: 0.09"  
**78327**: • Size: 0.94"L x 0.25"W x 0.74"H

\* Web Code: QAT

Part No.	Description	1	10	100
78300	6-pin male header .....	\$.45	\$.39	\$.35
78327	6-pin female housing .....	.49	.45	.39

## Waldom Hand Crimp Tools

Designed to crimp terminals, strip and cut wires, and cut bolts. For Molex .062" & .093" crimp pin terminals and KK® series on page 75.



**308030**: Cuts & strips 14-24 AWG wires  
**227491**: Cuts & strips 18-30 AWG wires

Part No.	Mfr. P/N	Length	Color	1	5
308030	W-HT-1919	8.3"L	Red .....	\$14.95	\$13.95
227491	W-HT-1921	8.3"L	Yellow ...	14.95	13.95

## Waldom Connector Extraction Tools

\* Web Code: BAV



Part No.	Mfr. P/N	AWG	Conn. Size	1	5
142156	W-HT-2285	14	.062" .....	\$14.95	\$12.95
227467	W-HT-2023	18-30	.062" .....	10.95	9.85
142236	W-HT-2038	14	.093" .....	14.95	12.95
227395	W-HT-2054	14-30	.093" .....	10.95	9.85
236128	W-HT-1884	22-30	.100" .....	10.95	9.49
234940	11-03-0022	22-30	.100" .....	7.95	6.95

\* Jumpers Available Online — Enter Web Code GAQ

## .118"-Pitch ATX Power Connectors

\* Web Code: FEM

### For Motherboards and Power Supplies

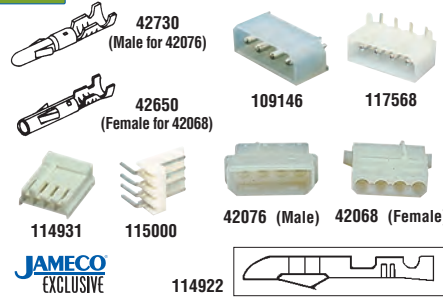
• Current rating: 7A AC/DC • Temperature range: -25°C to 85°C  
**147379**: Material: nylon 66, UL-94V0  
• Material of post: tin-plated brass • Diameter of post: 0.045"  
**147387**: Material: nylon 66, UL-94V0  
**147395**: Material: tin-plated brass



\* Order in multiples of 10

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.55	\$.49	\$.45
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	.59	.55	.49	.45
147395	Power terminal pin, F+	0.59"	—	—	0.068"	147387	*	.15	.12	.09

## Power Connectors & Pins



### Connector & Housing Specifications:

• Voltage rating: 250VAC (Mate-N-Lock 600VAC)  
• Operating temperature: -55°C to +105°C

### Crimp Pin Specifications:

• Material: tin plated brass  
• Current rating: 1.5A  
• Wire size range: 18-24 AWG  
• Use crimp tool P/N 99443, pg 158

\* Web Code: KAP

## .200" — For 5.25" Disk Drives & Power Supplies

### 42076 & 42068 Connector Housings:

• External key bar indicates pin 1  
• Extraction tools, P/Ns 131887 & 131879 (see below)  
• Keyed mating connectors

\* Order in multiples of 10

Part No.	Description	1	10	100
109146	4-pin M vert. PCB mtg. .....	\$.75	\$.65	\$.59
117568	4-pin M PCB mtg, horiz. edge mnt. .....	.95	.85	.75
42076	4-pin M housing .....	*	.12	.09
42068	4-pin F housing .....	*	.19	.15
42730	M crimp pin for 42076 .....	*	.12	.09
42650	F crimp pin for 42068 .....	*	.09	.07

## .100" — For 3.5" Disk Drives & Power Supplies

\* Order in multiples of 10

Part No.	Description	1	10	100
114931	4-pin F housing .....	\$.25	\$.19	\$.15
114922	F crimp pin for 114931 .....	*	.12	.09
115000	4-pin M rt. angle PCB mounting .....	.39	.35	.29

## Extraction Tools for Crimp Terminals

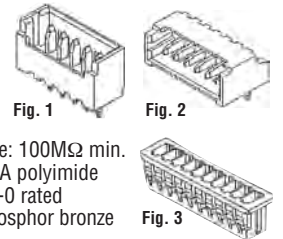
• Quickly and easily extract .093" locking pins from interlocking connectors  
• Length: 5"  
• See above for crimp pins  
**131887**: Male tool for 42730, above  
**131879**: Female tool for 42650, above

Part No.	Product No.	1	5
131887	HT319C .....	\$9.95	\$8.95
131879	HT319B .....	9.95	8.95



## .049" (1.25mm) Pitch Headers and Housings

• Wire to board  
• Blade pin  
• Friction lock  
• Current rating: 1A  
• Contact resistance: 20mΩ max.  
• Insulation resistance: 100MΩ min.  
• Housing material: PA polyimide (Nylon) 6/6, UL94V-0 rated  
• Contact material: phosphor bronze



### Shrouded Vertical Headers (Fig. 1)

Part No.	Product No.	Circuits	1	10	100
420339	53047-0210 .....	2	\$.25	\$.19	\$.15
420347	53047-0310 .....	3	.25	.19	.15
420355	53047-0410 .....	4	.25	.19	.15
420363	53047-0510 .....	5	.25	.19	.15
420371	53047-0610 .....	6	.29	.25	.19
420380	53047-0710 .....	7	.29	.25	.19
420398	53047-0810 .....	8	.29	.25	.19
420401	53047-0910 .....	9	.29	.25	.19
420419	53047-1010 .....	10	.29	.25	.19

### Shrouded Right-Angle Headers (Fig. 2)

Part No.	Product No.	Circuits	1	10	100
420427	53048-0210 .....	2	\$.25	\$.19	\$.15
420435	53048-0310 .....	3	.25	.19	.15
420443	53048-0410 .....	4	.25	.19	.15
420451	53048-0510 .....	5	.25	.19	.15
420460	53048-0610 .....	6	.29	.25	.19
420486	53048-0810 .....	8	.29	.25	.19
420507	53048-1010 .....	10	.29	.25	.19

### Housings (Fig. 3)

Order in multiples of 10

Part No.	Product No.	Circuits	10	100	500
420241	51021-0200 .....	2	\$.08	\$.07	\$.06
420259	51021-0300 .....	3	.08	.07	.06
420267	51021-0400 .....	4	.08	.07	.06
420275	51021-0500 .....	5	.08	.07	.06
420283	51021-0600 .....	6	.08	.07	.06
420291	51021-0700 .....	7	.08	.07	.06
420304	51021-0800 .....	8	.08	.07	.06
420312	51021-0900 .....	9	.08	.07	.06
420321	51021-1000 .....	10	.08	.07	.06

## molex® Female Crimp Terminals

### For above housings

• Contact material: phosphor bronze  
• Plating contact: 0.9µm (35µ) tin  
• Pre-plated



Order in multiples of 10

Part No.	Product No.	AWG	10	100	1000
668457	50079-8100 .....	26-28	\$.09	\$.08	\$.07
668473	50058-8100 .....	28-32	.19	.15	.12

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Headers, Housings & IDC Connectors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



## .079" (2.00mm) Pitch Headers and Housings

- Voltage rating: 125V
- Contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.

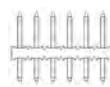


Fig. 1 Fig. 2 Fig. 3 Fig. 4  
**Dual Row Vertical Headers (Fig. 1)**

Part No.	Product No.	Circuits	1	10	100
378521	87758-0416R	4	\$.25	\$.15	\$.12
378530	87758-0616R	6	.25	.15	.12
378548	87758-0816R	8	.25	.19	.15
378556	87758-1016R	10	.39	.35	.29
378564	87758-1216R	12	.39	.35	.29
378572	87758-1416R	14	.49	.45	.39
378581	87758-1616R	16	.49	.45	.39
378599	87758-1816R	18	.49	.45	.39
378601	87758-2016R	20	.49	.45	.39
378610	87758-2216R	22	.49	.45	.39
378628	87758-2416R	24	.59	.49	.45
378636	87758-2616R	26	.59	.49	.45
378652	87758-3016R	30	.75	.65	.55
378708	87758-4016R	40	.85	.75	.69
378724	87758-4416R	44	.95	.85	.75
378759	87758-5016R	50	1.19	1.05	.89

## Right-Angle Headers (Fig. 2)

Part No.	Product No.	Circuits	1	10	100
378775	87760-0616R	6	\$.35	\$.29	\$.25
378783	87760-0816R	8	.35	.29	.25
378804	87760-1216R	12	.49	.45	.39
378812	87760-1416R	14	.55	.49	.45
378821	87760-1616R	16	.55	.49	.45
378839	87760-1816R	18	.59	.55	.49
378847	87760-2016R	20	.59	.55	.49

## Housings w/o Polarizing Key (Fig. 3)

Part No.	Product No.	Circuits	1	10	100
377975	51110-0450R	4	\$.25	\$.09	\$.08
377983	51110-0650R	6	.25	.09	.08
377991	51110-0850R	8	.25	.09	.08
378003	51110-1050R	10	.25	.15	.12
378011	51110-1250R	12	.25	.15	.12
378020	51110-1450R	14	.25	.15	.12
378038	51110-1650R	16	.25	.19	.15
378046	51110-1850R	18	.25	.19	.15
378054	51110-2050R	20	.29	.25	.19
378062	51110-2250R	22	.29	.25	.19
378071	51110-2450R	24	.29	.25	.19
378089	51110-2650R	26	.35	.29	.25
378097	51110-2850R	28	.35	.29	.25
378100	51110-3050R	30	.35	.29	.25

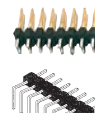
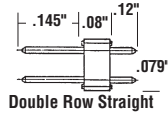
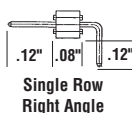
## Housings w/ Polarizing Key (Fig. 4)

Part No.	Product No.	Circuits	1	10	100
378142	51110-0851R	8	\$.25	\$.12	\$.09
378151	51110-1051R	10	.25	.19	.15
378169	51110-1251R	12	.25	.19	.15
378177	51110-1451R	14	.25	.19	.15
378185	51110-1651R	16	.25	.19	.15
378193	51110-1851R	18	.29	.25	.19
378206	51110-2051R	20	.29	.25	.19
378214	51110-2251R	22	.35	.29	.25
378222	51110-2451R	24	.35	.29	.25
378231	51110-2651R	26	.35	.29	.25
378249	51110-2851R	28	.39	.35	.29
378257	51110-3051R	30	.39	.35	.29

## .079" (2.00mm) Male Headers

- Solder to PC boards for instant plug-in access via shorting blocks (below right)
- Insulator: UL94V-0 polyester
- Contact material: phosphor bronze
- Temperature range: -55°C to +120°C
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing, pg 81
- Current rating: 1 amp
- Contact area: gold

★ Web Code: VMH



## Right Angle Single Row Male Headers

Part No.	Product No.	Contacts	1	10	100	1000
2076906	079RA11	1	\$.25	\$.10	\$.08	\$.06
2076914	079RA12	2	.25	.12	.10	.08
2076922	079RA14	4	.25	.19	.15	.12
2076931	079RA15	5	.29	.25	.19	.15
2076949	079RA110	10	.59	.49	.45	.39

## Straight Single Row Male Headers

Part No.	Product No.	Contacts	1	10	100	1000
2076957	079SS2	2	\$.25	\$.14	\$.12	\$.10
2077087	079SS3R	3	.25	.15	.13	.11
2077095	079SS4R	4	.25	.19	.15	.12
2077108	079SS6R	6	.29	.25	.19	.15
2077116	079SS10R	10	.49	.45	.35	.29
2077124	079SS14R	14	.69	.59	.49	.39
2077132	079SS20R	20	.95	.85	.69	.59

## Straight Double Row Male Headers

Part No.	Product No.	Contacts	1	10	100	1000
2077141	079DH4R	4	\$.25	\$.19	\$.15	\$.12
2077167	079DH6R	6	.29	.25	.19	.15
2077204	079DH8R	8	.39	.35	.29	.25
2076965	079DH10	10	.49	.45	.39	.35
2076973	079DH12	12	.59	.55	.49	.45
2076981	079DH14	14	.69	.65	.59	.49
2076990	079DH16	16	.79	.69	.65	.55
2077001	079DH20	20	.95	.89	.75	.65
2077010	079DH26	26	1.49	1.25	1.09	.89
2077028	079DH30	30	1.75	1.49	1.29	1.09
2077036	079DH40	40	1.95	1.75	1.59	1.39

## Milli-Grid™ Female Crimp Terminal

### For 51110 Series Housings on left

- Lead free
- Contact material: phosphor bronze
- Plating contact: 0.38μm (15μ") gold
- Under plating: nickel

molex®



Order in multiples of 10

Part No.	Product No.	AWG	10	100	1000
668465	50394-8100R	24-30	\$.19	\$.15	\$.09

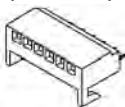


## .100" (2.54mm) PCB Connectors

★ Web Code: YBZ

### Receptacle, Top Entry with Hooks (Tin/Brass)

- Accepts 0.025" square posts
- Voltage rating: 250VAC
- Contact resistance: 40mΩ max.
- Insulation material: nylon 6/6, UL94V-2
- Withstanding voltage: 1000VAC/min.



Part No.	Mfr. Part No.	Pos.	1	10	100
688386	2405S08V000R	8	\$.45	\$.39	\$.35
688394	2405S09V000R	9	.55	.49	.45

AMP

## .098" (2.36mm) Post Header

### Horizontal Mount

- Housing: 6/6 nylon, UL94V-0
- Posts: brass/tin



Part No.	Mfr. Part No.	Pos.	1	10	100
742320	171826-4R	4	\$.65	\$.55	\$.45



## .100" (2.54mm) IDC Connectors

- Voltage rating: 250VAC
- Housing: UL94V-2 nylon
- Contact material: phosphor bronze
- Plating: tin

Fig. 1

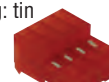
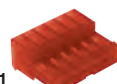


Fig. 2

Fig. 3

Fig. 4

## Closed-End Style

### Without Polarizing Tabs (Fig. 1)

Part No.	Product No.	Pos.	AWG Color	1	10	100
345631	640440-5	5	22 Red	\$.25	\$.19	\$.15
345640	640440-6	6	22 Red	.25	.19	.15
345674	640440-9	9	22 Red	.25	.19	.15
345682	1-640440-0	10	22 Red	.25	.19	.15
345738	640441-6	6	24 White	.25	.19	.15
345746	640441-7	7	24 White	.25	.19	.15
345754	640441-8	8	24 White	.29	.25	.19
345762	640441-9	9	24 White	.29	.25	.19
345771	1-640441-0	10	24 White	.29	.25	.19
345800	1-640442-4	4	26 Blue	.25	.15	.12

### With Polarizing Tabs (Fig. 2)

Part No.	Product No.	Pos.	AWG Color	1	10	100
345965	643813-2	2	22 Red	\$.25	\$.12	\$.09
345973	643813-3	3	22 Red	.25	.12	.09
345981	643813-4	4	22 Red	.25	.15	.12
345990	643813-5	5	22 Red	.25	.15	.12
346001	643813-6	6	22 Red	.25	.15	.12
346028	643813-8	8	22 Red	.29	.25	.19
346044	1-643813-0	10	22 Red	.29	.25	.19
346087	643814-5	5	24 White	.25	.15	.12
346095	643814-6	6	24 White	.25	.15	.12
346108	643814-7	7	24 White	.25	.19	.15
346116	643814-8	8	24 White	.25	.19	.15
346132	1-643814-0	10	24 White	.29	.25	.19

## Feed-Thru Style

### Without Polarizing Tabs (Fig. 3)

Part No.	Product No.	Pos.	AWG Color	1	10	100
346327	640620-2	2	22 Red	\$.25	\$.19	\$.15
346335	640620-3	3	22 Red	.25	.19	.15
346343	640620-4	4	22 Red	.25	.19	.15
346351	640620-5	5	22 Red	.25	.19	.15
346360	640620-6	6	22 Red	.29	.25	.19
346378	640620-7	7	22 Red	.29	.25	.19
346394	640620-9	9	22 Red	.29	.25	.19
346407	1-640620-0	10	22 Red	.29	.25	.19
346423	640621-3	3	24 White	.25	.19	.15
346431	640621-4	4	24 White	.25	.19	.15
346440	640621-5	5	24 White	.25	.19	.15
346458	640621-6	6	24 White	.29	.25	.19
346474	640621-8	8	24 White	.29	.25	.19
346482	640621-9	9	24 White	.29	.25	.19

Continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## .100" (2.54mm) IDC Connectors (Cont.)

### Feed-Thru Style (Cont.)

With Polarizing Tabs (Fig. 4 – Previous Page)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
346685	644540-2	2	22	Red	\$.25	\$.19	\$.15
346693	644540-3	3	22	Red	.25	.19	.15
346706	644540-4	4	22	Red	.25	.19	.15
346722	644540-6	6	22	Red	.25	.19	.15
346731	644540-7	7	22	Red	.25	.19	.15
346749	644540-8	8	22	Red	.25	.19	.15
346765	1-644540-0	10	22	Red	.25	.19	.15
346773	644563-2	2	24	White	.25	.19	.15
346781	644563-3	3	24	White	.25	.19	.15
346790	644563-4	4	24	White	.25	.19	.15
346811	644563-6	6	24	White	.25	.19	.15
346837	644563-8	8	24	White	.25	.19	.15
346853	1-644563-0	10	24	White	.25	.19	.15

## AMP MTA-100 .100" (2.54mm) IDC Connectors

### Closed-End Style w/o Polarizing Tabs w/ Locking Ramp

- Contacts: phosphor bronze, tin-plated
- Voltage rating: 250VAC
- Current rating: 5A

\* Web Code: CCV 524710

Part No.	Product No.	Pos.	AWG	Color	1	10	100
524710	640440-4	4	22	Red	\$.25	\$.19	\$.15
524681	1-640440-2	12	22	Red	.55	.49	.45
524761	640441-2	2	24	White	.25	.15	.12



## .100" Strain Relief Covers

Fig. 1

Fig. 2

Part No.	Cross Ref.	Fig.	Style	Pos.	1	10	100
326019	643075-2	1	Closed-end	2	\$.25	\$.15	\$.12
326027	643075-3	1	Closed-end	3	.25	.15	.12
326035	643075-4	1	Closed-end	4	.25	.15	.12
326043	643075-5	1	Closed-end	5	.25	.15	.12
326051	643075-6	1	Closed-end	6	.25	.15	.12
326060	643075-7	1	Closed-end	7	.25	.15	.12
326078	643075-8	1	Closed-end	8	.25	.15	.12
326086	643075-9	1	Closed-end	9	.25	.15	.12
326094	1-643075-0	1	Closed-end	10	.25	.15	.12
326107	643077-2	2	Feed-thru	2	.25	.15	.12
326115	643077-3	2	Feed-thru	3	.25	.15	.12
326123	643077-4	2	Feed-thru	4	.25	.15	.12
326131	643077-5	2	Feed-thru	5	.25	.15	.12
326140	643077-6	2	Feed-thru	6	.25	.15	.12
326158	643077-7	2	Feed-thru	7	.25	.15	.12
326166	643077-8	2	Feed-thru	8	.25	.15	.12
326174	643077-9	2	Feed-thru	9	.25	.15	.12
326182	1-643077-0	2	Feed-thru	10	.25	.15	.12

## AMP T-Handle Tool

- For .100" (2.54mm) IDC connectors

Part No.	Mfr. P/N	Description	1	10
365974	59803-1	.100" hand tool	\$21.95	\$19.95

## Manual Pistol Hand Grip Tool

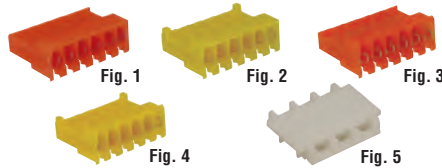
- For use with MTA connectors

Part No.	Mfr. P/N	1	5
526635	58074-1	\$64.95	\$59.95



## .156" (3.96mm) IDC Connectors

### AMP MTA-156 Series Value Equivalents



### Closed-End Style

With Locking Ramp, w/o Polarizing Tabs (Fig. 1)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397431	640426-2	2	18	Orange	\$.25	\$.19	\$.15
397440	640426-3	3	18	Orange	.25	.19	.15
397474	640426-6	6	18	Orange	.25	.19	.15
397520	640427-2	2	20	Yellow	.25	.19	.15
397554	640427-5	5	20	Yellow	.25	.19	.15
397562	640427-6	6	20	Yellow	.25	.19	.15

With Locking Ramp, Polarizing Tabs (Fig. 2)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397618	643817-2	2	18	Orange	\$.25	\$.19	\$.15
397626	643817-3	3	18	Orange	.25	.19	.15
397634	643817-4	4	18	Orange	.25	.19	.15
397642	643817-5	5	18	Orange	.25	.19	.15
397651	643817-6	6	18	Orange	.25	.19	.15
397706	643818-2	2	20	Yellow	.25	.19	.15
397714	643818-3	3	20	Yellow	.25	.19	.15
397722	643818-4	4	20	Yellow	.25	.19	.15
397731	643818-5	5	20	Yellow	.25	.19	.15
397749	643818-6	6	20	Yellow	.25	.19	.15

Strain Relief Covers for Closed-End Style

Part No.	Product No.	Pos.	1	10	100
398696	643067-2	2	\$.25	\$.15	\$.12
398709	643067-3	3	.25	.15	.12
398717	643067-4	4	.25	.15	.12
398725	643067-5	5	.25	.15	.12
398733	643067-6	6	.25	.15	.12

### Feed-Thru Style

With Locking Ramp, w/o Polarizing Tabs (Fig. 3)

Part No.	Product No.	Pos.	AWG	Color	1	10	100
397802	640599-3	3	18	Orange	\$.25	\$.19	\$.15
397811	640599-4	4	18	Orange	.25	.19	.15
397829	640599-5	5	18	Orange	.25	.19	.15
397837	640599-6	6	18	Orange	.25	.19	.15
397888	640600-2	2	20	Yellow	.25	.19	.15
397909	640600-4	4	20	Yellow	.25	.19	.15
397917	640600-5	5	20	Yellow	.25	.19	.15
397925	640600-6	6	20	Yellow	.25	.19	.15

With Locking Ramp, Polarizing Tabs (Fig. 4)

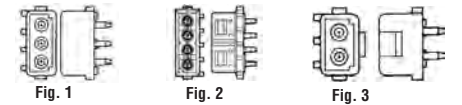
Part No.	Product No.	Pos.	AWG	Color	1	10	100
397984	644465-3	3	18	Orange	\$.25	\$.19	\$.15
397992	644465-4	4	18	Orange	.25	.19	.15
398004	644465-5	5	18	Orange	.25	.19	.15
398012	644465-6	6	18	Orange	.25	.19	.15
398063	644466-2	2	20	Yellow	.25	.19	.15
398071	644466-3	3	20	Yellow	.25	.19	.15
398080	644466-4	4	20	Yellow	.25	.19	.15
398098	644466-5	5	20	Yellow	.25	.19	.15
398101	644466-6	6	20	Yellow	.25	.19	.15

Strain Relief Covers for Feed-Thru Style (Fig. 5)

Part No.	Product No.	Pos.	1	10	100
398602	643071-2	2	\$.25	\$.15	\$.12
398611	643071-3	3	.25	.15	.12
398629	643071-4	4	.25	.15	.12
398637	643071-5	5	.25	.15	.12
398645	643071-6	6	.25	.15	.12

## Commercial MATE-N-LOK™ Connectors & Terminals

- Fully polarized nylon housing
- UL94V-2 rated housing
- Durability: 50 cycles, mating and unmating



PCB In-Line Vert. Pin Header w/ Detent Lock (Fig. 1)

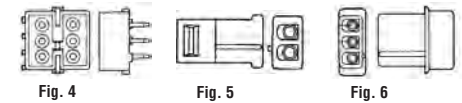
Part No.	Product No.	Pos.	1	10	100
679607	350210-1	3	\$.65	\$.59	\$.55
679674	350214-1	16	.95	.85	.75

PCB In-Line Vert. Socket Header w/ Detent (Fig. 2)

Part No.	Product No.	Pos.	1	10	100
679682	770997-1	4	\$1.19	\$1.05	\$.95

PCB In-Line Vert. Pin Header w/ Positive Lock (Fig. 3)

Part No.	Product No.	Pos.	1	10	100
679594	350541-1	3	\$1.19	\$1.05	\$.95
679615	350543-1	4	1.29	1.15	1.05



PCB Dual Row Vertical Pin Header w/ Positive Lock (Fig. 4)

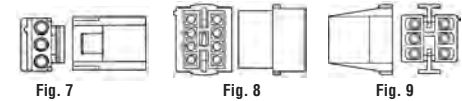
Part No.	Product No.	Pos.	1	10	100
679623	350425-1	6 (2 x 3)	\$1.65	\$1.45	\$1.29
679640	1-380991-0	10 (2 x 5)	1.19	1.05	.95
679666	350214-1	16 (2 x 8)	2.79	2.49	2.25

In-Line Housing Plug, Free Hanging (Fig. 5)

Part No.	Product No.	Pos.	1	10	100
527099	1-480303-0	3	\$.29	\$.25	\$.19
527101	1-480424-0	4	.35	.29	.25
679383	770827-1	4	.39	.35	.29

In-Line Housing Cap, Free Hanging (Fig. 6)

Part No.	Product No.	Pos.	1	10	100
679308	1-480350-0	1	\$.25	\$.19	\$.15
679316	1-480351-0	1	.25	.19	.15
679324	1-480305-0	3	.25	.19	.15
527195	1-480426-0	4	.39	.35	.29



In-Line Housing Plug, Free Hanging w/ Positive Lock (Fig. 7)

Part No.	Product No.	Pos.	1	10	100
679367	1-480721-0	3	\$.85	\$.75	\$.69
679375	1-480722-0	4	.49	.45	.39

Dual Row Housing Cap w/ Positive Lock (Fig. 8)

Part No.	Product No.	Pos.	1	10	100
679332	1-480340-0	6 (2 x 3)	\$.39	\$.35	\$.29
679341	1-480345-0	8 (2 x 4)	.45	.39	.35
679359	1-480339-0	10 (2 x 5)	.85	.75	.65

Motor Mount, Dual Row Plug w/ Positive Lock (Fig. 9)

Part No.	Product No.	Pos.	1	10	100
679391	1-480283-0	8 (2 x 3)	\$.59	\$.55	\$.49
679404	1-480285-0	10 (2 x 5)	.69	.59	.55
679412	1-480287-0	12 (2 x 6)	.79	.69	.65
679421	1-480438-0	16 (2 x 8)	.95	.85	.75

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## AMP Commercial MATE-N-LOK™ Connectors & Terminals (Cont.)



### Motor Mount, Dual Row Cap with Positive Lock (Fig. 10)

Part No.	Product No.	Pos.	1	10	100
679527	1-480271-0- <i>R</i>	6 (2 x 3) .....	.35	.29	.25
679535	1-480284-0- <i>R</i>	8 (2 x 4) .....	.39	.35	.29
679543	1-480286-0- <i>R</i>	10 (2 x 5) .....	1.59	1.45	1.29
679551	1-480288-0- <i>R</i>	12 (2 x 6) .....	.49	.45	.39
679560	1-480439-0- <i>R</i>	16 (2 x 8) .....	.75	.65	.55

### Panel Mount Housing Plug with Positive Lock (Fig. 11)

Part No.	Product No.	Pos.	1	10	100
679471	1-480304-0- <i>R</i>	3 (1 x 3) .....	.29	.25	.19
679480	1-480273-0- <i>R</i>	6 (3 x 2) .....	.39	.35	.29
679498	1-480274-0- <i>R</i>	9 (3 x 3) .....	.95	.85	.75
679501	1-480275-0- <i>R</i>	12 (3 x 4) .....	.55	.49	.45
679519	1-480323-0- <i>R</i>	15 (3 x 5) .....	.75	.65	.59

### Panel Mount Housing Cap with Positive Lock (Fig. 12)

Part No.	Product No.	Pos.	1	10	100
679439	1-480276-0- <i>R</i>	6 (3 x 2) .....	.45	.39	.35
679447	1-480277-0- <i>R</i>	9 (3 x 3) .....	.55	.49	.45
679463	1-480324-0- <i>R</i>	15 (3 x 5) .....	.75	.65	.55

### Vertical In-Line IDC (Fig. 13)

Part No.	Product No.	Pos.	AWG	1	10	100
679691	770156-4- <i>R</i>	4	20 .....	.69	.59	.49
679703	770156-3- <i>R</i>	4	18 .....	.69	.59	.49

### IDC Dust Covers (Fig. 14)

Part No.	Product No.	Pos.	Style	1	10	100
679711	770232-1- <i>R</i>	4	Feed-to	.25	.19	.15
679720	770233-1- <i>R</i>	4	Feed-thru	.29	.25	.19

### Crimp Terminals (Fig. 15)

- Material:  
A—brass pre-tin; B—brass, gold  
C—phosphor bronze/pre-tin

Part No.	Product No.	Type	AWG	Material	10	100
526150	60617-1- <i>R</i>	Socket	24-18	A .....	.09	.08
679578	60618-5- <i>R</i>	Pin	24-18	B .....	.85	.75
526168	60619-1- <i>R</i>	Socket	20-14	A .....	.15	.12
526125	60620-1- <i>R</i>	Pin	20-14	A .....	.15	.12
847009	350922-3- <i>R</i>	Pin	12-10	C .....	.19	.15
845652	350536-3- <i>R</i>	Socket	20-14	C .....	.09	.08



## .100" & 2mm Shorting Blocks



- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

\* Web Code: MAC

Open: Open on top to allow for a test point  
Closed: Closed top

119264: 2mm (for disk drives) Order in multiples of 10

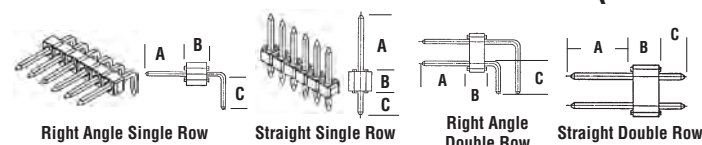
Part No.	Description	10	100	500
22203	Top open, black (.100")+ .....	.10	.07	.05
119264	Top open, black (2mm)+ .....	.12	.09	.07
112425	Top open, blue (.100")+ .....	.10	.07	.05
112417	Top open, red (.100")+ .....	.12	.09	.07
19141	Top closed, black (.100")+ .....	.10	.07	.05
112442	Top closed, blue (.100")+ .....	.12	.09	.07
112432	Top closed, red (.100")+ .....	.12	.09	.07
152671	Top closed, black (.100")+ .....	.15	.12	.09

## AMP AMPMODU™ Shunt

- 2 position low profile
- 94V-0 rated housing • Black
- Contact: phosphor bronze
- One-piece contact construction

Part No.	Product No.	Plating	10	100	500
421454	382811-8- <i>R</i>	5µ" gold .....	.15	.12	.09

## .100" (2.54mm) Male Headers



### Right Angle Single Row Male Headers

Part No.	Manufacturer	Cross Ref. No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
2076842	Various	RMH5	5	.23 x .10 x .12	Gold .....	.35	.29	.25
2076851	Various	RMH6	6	.23 x .10 x .12	Gold .....	.35	.29	.25
153728	ValuePro	RMH8+	8	.23 x .10 x .12	Gold .....	.39	.35	.29
2076869	Various	RMH26	26	.23 x .10 x .12	Gold .....	.55	.45	.35
103271	ValuePro	RMH36- <i>R</i>	36	.23 x .10 x .12	Gold .....	.95	.79	.65
1946041	ValuePro	RMH36AR(type A)- <i>R</i>	36	.12 x .10 x .22	Gold .....	.85	.69	.55

\* Web Code: DAH

### Straight Single Row Male Headers

Part No.	Manufacturer	Cross Ref. No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
2076797	Various	SMH01	1	.23 x .10 x .12	Gold .....	.25	.12	.09
222966	Various	SMH01GT-43- <i>R</i>	1	.43 x .10 x .12	Gold/Tin .....	.25	.14	.11
879406	Molex	22-28-4020- <i>R</i>	2	.23 x .10 x .12	Tin .....	.25	.19	.15
108337	Various	SMH02+	2	.23 x .10 x .12	Gold .....	.25	.19	.15
421489	AMP	103185-3	3	.23 x .09 x .12	Gold/Tin .....	.29	.25	.19
109575	Various	SMH03+	3	.23 x .10 x .12	Gold .....	.29	.25	.19
687148	Leoco	2556P03JL62- <i>R</i>	3	.23 x .10 x .12	Gold/Tin .....	.25	.15	.12
117559	Various	SMH04+	4	.23 x .10 x .12	Gold .....	.29	.25	.19
2076789	Various	SMH05	5	.23 x .10 x .12	Gold .....	.25	.19	.15
153699	Various	SMH06+	6	.23 x .10 x .12	Gold .....	.29	.25	.19
2076800	Various	SMH07	7	.23 x .10 x .12	Gold .....	.25	.19	.15
687181	Leoco	2556P07JL62- <i>R</i>	7	.23 x .10 x .12	Gold/Tin .....	.35	.29	.25
153702	ValuePro	SMH08- <i>R</i>	8	.23 x .10 x .12	Gold .....	.29	.25	.19
2076818	Various	SMH09	9	.23 x .10 x .12	Gold .....	.25	.19	.15
103393	ValuePro	SMH10- <i>R</i>	10	.23 x .10 x .12	Gold .....	.35	.29	.25
686680	Leoco	2556P12TL63- <i>R</i>	12	.30 x .10 x .12	Tin .....	.29	.25	.19

\* Dimension "A" has gold plating; dimension "C" has tin plating

### Straight Single Row Male Headers (Continued)

Part No.	Manufacturer	Cross Ref. No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
103377	ValuePro	SMH17- <i>R</i>	17	.23 x .10 x .12	Gold .....	.35	.29	.25
103369	ValuePro	SMH20- <i>R</i>	20	.23 x .10 x .12	Gold .....	.35	.29	.25
202825	ValuePro	SMH22	22	.23 x .10 x .12	Gold .....	.35	.29	.25
103351	ValuePro	SMH25- <i>R</i>	25	.23 x .10 x .12	Gold .....	.39	.35	.25
103342	ValuePro	SMH30- <i>R</i>	30	.23 x .10 x .12	Gold .....	.39	.35	.25
222991	Various	SMH32GT- <i>R</i>	32	.23 x .10 x .12	Gold/Tin .....	.39	.29	.25
2076826	Various	SMH34	34	.23 x .10 x .12	Gold .....	.39	.35	.25
68339	ValuePro	SMH36+	36	.23 x .10 x .12	Gold .....	.45	.35	.29
527654	AMP	4-102976-0	40	.32 x .09 x .12	Gold/Tin .....	2.49	2.25	1.95
160882	ValuePro	SMH40- <i>R</i>	40	.23 x .10 x .12	Gold .....	.59	.49	.39
687121	Leoco	2556P40TL62- <i>R</i>	40	.32 x .10 x .12	Gold/Tin .....	.55	.49	.45

\* Dimension "A" has gold plating; dimension "C" has tin plating

### Right Angle Double Row Male Headers

Part No.	Manufacturer	Cross Ref. No.	Pos.	Size (A"xB"xC")	Plating	1	10	100
203908	ValuePro	923804DR	4	.23 x .10 x .12	Gold .....	.25	.15	.12
203917	ValuePro	923806DR- <i>R</i>	6	.23 x .10 x .12	Gold .....	.25	.19	.15
203924	ValuePro	923808DR	8	.23 x .10 x .12	Gold .....	.25	.19	.15
203932	ValuePro	923810DR	10	.23 x .10 x .12	Gold .....	.29	.25	.19
203941	ValuePro	923812DR	12	.23 x .10 x .12	Gold .....	.29	.25	.19
203959	ValuePro	923814DR	14	.23 x .10 x .12	Gold .....	.29	.25	.19
203967	ValuePro	923816DR	16	.23 x .10 x .12	Gold .....	.39	.29	.25
203975	ValuePro	923818DR	18	.23 x .10 x .12	Gold .....	.45	.35	.29
53576	ValuePro	923820DR- <i>R</i>	20	.23 x .10 x .12	Gold .....	.49	.39	.35
53583	Various	9238260DR+	26	.23 x .10 x .12	Gold .....	.55	.45	.35
204038	ValuePro	923834R	34	.23 x .10 x .12	Gold .....	.65	.55	.45
53604	Various	923840DR+	40	.23 x .10 x .12	Gold .....	.65	.55	.45
53612	ValuePro	923850DR+	50	.23 x .10 x .12	Gold .....	.75	.65	.55
103413	ValuePro	923872DR+	72	.23 x .10 x .12	Gold .....	.85	.69	.59

\* Dimension "A" has gold plating; dimension "C" has tin plating

Straight Double Row Male Headers continued on next page



## .100" (2.54mm) Male Headers (Continued)

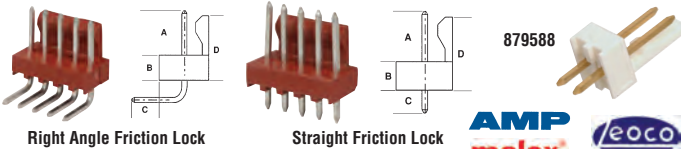


### Straight Double Row Male Headers

• Position: 4 is 2 rows of 2; 12 is 2 rows of 6 (example)

Part No.	Manufacturer	Product No.	Pos.	Size (A"xB"xC")*	Plating	1	10	100
15156	Various	DMH04GT	4	.23 x .10 x .12	Gold/Tin	\$.25	\$.12	\$.09
115027	Various	923804DS+	4	.23 x .10 x .12	Gold	\$.25	\$.15	\$.12
115035	ValuePro	923806DS+	6	.23 x .10 x .12	Gold	\$.25	\$.19	\$.15
15158	Various	DMH06T-30	6	.30 x .10 x .12	Tin	\$.25	\$.19	\$.15
15747	Various	DMH06-30	6	.30 x .10 x .12	Gold	\$.29	\$.25	\$.19
109516	Various	923808DS+	8	.23 x .10 x .12	Gold	\$.29	\$.25	\$.19
67821	ValuePro	923810DS	10	.23 x .10 x .12	Gold	\$.35	\$.29	\$.25
203810	ValuePro	923812DS	12	.23 x .10 x .12	Gold	\$.39	\$.29	\$.25
118456	ValuePro	923814DS	14	.23 x .10 x .12	Gold	\$.49	\$.39	\$.35
109568	ValuePro	923816DS	16	.23 x .10 x .12	Gold	\$.55	\$.45	\$.39
2076877	Various	923818DS	18	.23 x .10 x .12	Gold	\$.55	\$.45	\$.35
53480	ValuePro	923820DS	20	.23 x .10 x .12	Gold	\$.65	\$.55	\$.45
203836	ValuePro	923822DS	22	.23 x .10 x .12	Gold	\$.65	\$.55	\$.45
203844	ValuePro	923824DS	24	.23 x .10 x .12	Gold	\$.75	\$.59	\$.49
53495	Various	923826DS	26	.23 x .10 x .12	Gold	\$.75	\$.59	\$.49
203852	ValuePro	923828DS	28	.23 x .10 x .12	Gold	\$.75	\$.59	\$.49
203861	ValuePro	923832DS	32	.23 x .10 x .12	Gold	\$.75	\$.59	\$.49
53517	ValuePro	923834DS	34	.23 x .10 x .12	Gold	\$.75	\$.59	\$.49
203888	ValuePro	923836DS	36	.23 x .10 x .12	Gold	\$.85	\$.69	\$.55

\* For sizes please reference pictures on previous page



### Right Angle Friction Lock Headers

Part No.	Mfr.	Product No.	Pos.	Size (A"xB"xC"xD")	Plating	1	10	100
233437	Molex	22-05-3021	2	.26 x .13 x .14 x .32	Tin	\$.25	\$.15	\$.12
348234	ValuePro	641216-2	2	.30 x .10 x .14 x .31	Gold	\$.25	\$.19	\$.15
233445	Molex	22-05-3031	3	.26 x .13 x .14 x .32	Tin	\$.29	\$.25	\$.19
348242	ValuePro	641216-3	3	.30 x .10 x .14 x .31	Gold	\$.35	\$.29	\$.25
233453	Molex	22-05-3041	4	.26 x .13 x .14 x .32	Tin	\$.35	\$.29	\$.25
233699	Molex	22-12-2044	4	.26 x .13 x .12 x .32	Gold	\$.79	\$.69	\$.59
348251	ValuePro	641216-4	4	.30 x .10 x .14 x .31	Gold	\$.35	\$.29	\$.25
233461	Molex	22-05-3051	5	.26 x .13 x .14 x .32	Tin	\$.45	\$.35	\$.29
348269	ValuePro	641216-5	5	.30 x .10 x .14 x .31	Gold	\$.59	\$.49	\$.45
233470	Molex	22-05-3061	6	.26 x .13 x .14 x .32	Tin	\$.49	\$.39	\$.35
348277	ValuePro	641216-6	6	.30 x .10 x .14 x .31	Gold	\$.65	\$.59	\$.55
348285	ValuePro	641216-7	7	.30 x .10 x .14 x .31	Gold	\$.79	\$.69	\$.59
233496	Molex	22-05-3081	8	.26 x .13 x .14 x .32	Tin	\$.59	\$.49	\$.39
348293	ValuePro	641216-8	8	.30 x .10 x .14 x .31	Gold	\$.85	\$.75	\$.65
348306	ValuePro	641216-9	9	.30 x .10 x .14 x .31	Gold	\$.89	\$.79	\$.69
348315	ValuePro	4-641216-0	10	.30 x .10 x .14 x .31	Gold	\$.95	\$.85	\$.75

### Standard Straight Post

347400	ValuePro	644659-9†	9	.30 x .10 x .110	Tin	\$.25	\$.19	\$.15
232240	Molex	22-03-2121	12	.30 x .13 x .135	Tin	\$.45	\$.39	\$.35

† With retentive leg



## KK® Series .100" (2.54mm) Female Housings

- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

### Housing Material:

- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C



### Housing with Locking Ramp

Part No.	Product No.	Pos.	1	10	100
234704	22-01-2027	2	\$.25	\$.15	\$.07
234712	22-01-2037	3	\$.25	\$.19	\$.15
234721	22-01-2047	4	\$.25	\$.19	\$.15
234739	22-01-2057	5	\$.35	\$.29	\$.19
234747	22-01-2067	6	\$.39	\$.35	\$.29
234771	22-01-2107	10	\$.59	\$.55	\$.39

### Housing w/ Locking Ramp & Polarizing Ribs

Part No.	Product No.	Pos.	1	10	100
234798	22-01-3027	2	\$.25	\$.15	\$.07
234801	22-01-3037	3	\$.25	\$.19	\$.15
234819	22-01-3047	4	\$.29	\$.25	\$.19
234827	22-01-3057	5	\$.39	\$.35	\$.29
234835	22-01-3067	6	\$.45	\$.39	\$.35
234851	22-01-3087	8	\$.55	\$.49	\$.35
234878	22-01-3107	10	\$.59	\$.55	\$.49

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Housings, Headers & Crimp Terminals

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## molex® KK® Series .100" (2.54mm) Crimp Terminals

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 736456/736501/234923/234931: brass; 736595/462969/463005: phosphor bronze

★ Web Code: JCT



### Bulk Packaged

Part No.	Product No.	Plating	10	100	1000
736501	08-50-0113	Tin	\$.05	\$.04	\$.03
234923	08-50-0114	Tin	.06	.05	.04
234931	08-55-0102	15µ" gold	.15	.12	.11
736595	08-52-0123	Tin	.09	.08	.07
462969	08-65-0805	Tin (cat ear)	.09	.08	.07
463005	08-65-0816	15µ" gold	.19	.15	.13

Order in multiples of 10

## KK® Series .100" (2.54mm) Pitch Crimp Terminal Housings

- High Pressure
- Voltage: 250V
- Contact resistance: 20mΩ max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: white nylon, UL04V-0

molex®



Part No.	Product No.	Pos.	1	10	100
516200	10-11-2013	1	\$.25	\$.15	\$.12
516218	10-11-2023	2	.25	.15	.12
516226	10-11-2033	3	.25	.15	.12
516234	10-11-2043	4	.29	.25	.19
516242	10-11-2053	5	.29	.25	.19
516277	10-11-2083	8	.35	.29	.25
516293	10-11-2103	10	.39	.35	.29
516314	10-11-2123	12	.45	.39	.35

### Crimp Terminal

Part No.	Product No.	Plating	10	100	1000
736456	08-50-0005	Tin/copper	\$.15	\$.12	\$.09



Order in multiples of 10

## .100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housings

### Single Row

- Housing: black glass filled polyester, UL94V-0



### Version A, Non-polarized

★ Web Code: VDD

Part No.	Product No.	Pos.	1	10	100
884301	50-57-9002	2	\$.29	\$.19	\$.15

### Version G, Positive Latch

Part No.	Product No.	Pos.	1	10	100
884328	50-57-9402	2	\$.25	\$.19	\$.15
884344	50-57-9403	3	.25	.19	.15
884379	50-57-9404	4	.25	.19	.15

### Female Crimp Terminals



Part No.	Product No.	AWG	Plating	10	100
741685	16-02-0103	22-24	15µ" gold	\$.09	\$.08
741677	16-02-0086	22-24	Tin	.07	.06

1 Bulk 2 Reel

Order in multiples of 10

## .118" (3.0mm) Pitch Micro-Fit Housings and Headers

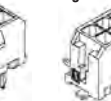
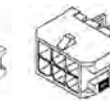
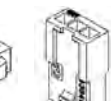
- Housing: polyester, UL94V-0
- Fully polarized to mating connector

molex®

JAMECO ValuePro

NEW MARKED IN PINK

★ Web Code: UBW



### Receptacles

#### Single Row (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
338351	ValuePro	43645-0200	2	\$.25	\$.15	\$.12
338378	ValuePro	43645-0400	4	.25	.15	.12
338634	ValuePro	43645-0500	5	.25	.15	.12

#### Double Row (Fig. 2)

Part No.	Mfr.	Product No.	Pos.	1	10	100
882867	Molex	43025-0200	2	\$.25	\$.19	\$.15
337674	ValuePro	43025-0400	4	.25	.15	.12
337682	ValuePro	43025-0600	6	.25	.15	.12
882921	Molex	43025-0800	8	.35	.29	.25
337703	ValuePro	43025-1000	10	.25	.15	.12
337711	ValuePro	43025-1200	12	.25	.15	.12
337834	ValuePro	43025-1400	14	.45	.39	.35
883026	Molex	43025-1800	18	.65	.55	.49
337869	ValuePro	43025-2000	20	.25	.19	.15
337877	ValuePro	43025-2400	24	.25	.19	.15

### Plugs

#### Single Row, Panel Mount w/ Ears (Fig. 3)

Part No.	Mfr.	Product No.	Pos.	1	10	100
338255	ValuePro	43640-0200	2	\$.25	\$.15	\$.12
338271	ValuePro	43640-0300	3	.25	.15	.12
338298	ValuePro	43640-0400	4	.25	.15	.12
338319	ValuePro	43640-0500	5	.25	.15	.12
338335	ValuePro	43640-0600	6	.25	.15	.12

#### Single Row, Free Hanging (Fig. 4)

Part No.	Mfr.	Product No.	Pos.	1	10	100
338263	ValuePro	43640-0201	2	\$.25	\$.15	\$.12
338301	ValuePro	43640-0401	4	.25	.15	.12
338327	ValuePro	43640-0501	5	.25	.15	.12

### Plugs (Continued)

#### Double Row, Panel Mount w/ Ears (Fig. 5)

Part No.	Mfr.	Product No.	Pos.	1	10	100
338343	ValuePro	43640-0601	6	\$.25	\$.15	\$.12
337586	ValuePro	43020-0200	2	.25	.15	.12
337594	ValuePro	43020-0400	4	.25	.15	.12
337607	ValuePro	43020-0600	6	.25	.15	.12
337623	ValuePro	43020-0800	8	.25	.15	.12
337640	ValuePro	43020-1000	10	.25	.15	.12
337826	ValuePro	43020-1200	12	.29	.25	.19

#### Double Row, Free Hanging (Fig. 6)

Part No.	Mfr.	Product No.	Pos.	1	10	100
337800	ValuePro	43020-0201	2	\$.25	\$.15	\$.12
337818	ValuePro	43020-0401	4	.25	.15	.12
337615	ValuePro	43020-0601	6	.25	.15	.12
337658	ValuePro	43020-1001	10	.25	.15	.12

### Single Row Headers

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 7)

Part No.	Mfr.	Product No.	Pos.	1	10	100
338431	ValuePro	43650-0300	3	\$.25	\$.19	\$.15
338466	ValuePro	43650-0400	4	.25	.19	.15
338491	ValuePro	43650-0500	5	.25	.19	.15
338520	ValuePro	43650-0600	6	.25	.19	.15

#### Right Angle, SMT – Tin (Fig. 8)

- Solderable fitting nail provides retention to PCB

Part No.	Mfr.	Product No.	Pos.	1	10	100
338423	Molex	43650-0212	2	\$2.19	\$1.95	\$1.75
338458	Molex	43650-0312	3	2.29	2.05	1.85
338482	Molex	43650-0412	4	2.39	2.15	1.89
338511	Molex	43650-0512	5	2.95	2.65	2.39
338546	Molex	43650-0612	6	3.19	2.85	2.55

### Plugs (Continued)

#### RA, Snap-In Plastic Peg, PCB – 15µ" gold (Fig. 7)

Part No.	Mfr.	Product No.	Pos.	1	10	100
338407	ValuePro	43650-0201	2	\$.25	\$.19	\$.15
338642	ValuePro	43650-0301	3	.29	.25	.15
338651	ValuePro	43650-0401	4	.35	.29	.19

#### Right Angle, SMT – 15µ" gold (Fig. 9)

- Solderable retention clip

Part No.	Mfr.	Product No.	Pos.	1	10	100
338415	Molex	43650-0210	2	\$2.19	\$1.95	\$1.75
338440	Molex	43650-0310	3	2.29	2.05	1.85
338474	Molex	43650-0410	4	2.49	2.25	2.05
338503	Molex	43650-0510	5	2.75	2.49	2.25
338538	Molex	43650-0610	6	2.95	2.69	2.45

### Double Row Headers

#### Right Angle, Snap-In Plastic Peg, PCB – Tin (Fig. 10)

Part No.	Mfr.	Product No.	Pos.	1	10	100
883317	Molex	43045-0400	4	\$.69	\$.59	\$.55
338044	ValuePro	43045-0600	6	.25	.19	.15
338554	ValuePro	43045-0800	8	.25	.19	.17
338562	ValuePro	43045-1000	10	.29	.25	.19
338212	ValuePro	43045-1200	12	.35	.29	.25
338571	ValuePro	43045-1400	14	.39	.35	.29
338597	ValuePro	43045-1600	16	.49	.45	.39

#### RA, Snap-In Plastic Peg, PCB – 30µ" Gold (Fig. 10)

Part No.	Mfr.	Product No.	Pos.	1	10	100
337893	ValuePro	43045-0202	2	\$.29	\$.25	\$.19
337973	ValuePro	43045-0402	4	.45	.39	.35
338052	ValuePro	43045-0602	6	.55	.49	.45
338116	ValuePro	43045-0802	8	.69	.59	.55
338167	ValuePro	43045-1002	10	.85	.75	.65
338221	ValuePro	43045-1202	12	.95	.85	.75
338618	ValuePro	43045-2202	22	1.95	1.75	1.55

Continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## .118" (3.00mm) Pitch Micro-Fit Housings and Headers (Continued)

### Double Row Headers (Cont.)

#### Right Angle, SMT – Tin (Fig. 11)

- Solderable fitting nail provides retention to PCB

Part No.	Mfr.	Product No.	Pos.	1	10	100
337906	Molex	43045-0209	2	\$1.19	\$1.05	\$.95
337981	Molex	43045-0409	4	1.29	1.15	1.05
338061	Molex	43045-0609	6	1.39	1.25	1.09

#### Right Angle, SMT – 30µ" Gold (Fig. 11)

- Solderable fitting nail provides retention to PCB

Part No.	Mfr.	Product No.	Pos.	1	10	100
337914	Molex	43045-0211	2	\$2.95	\$2.65	\$2.39
337990	Molex	43045-0411	4	1.95	1.75	1.55
338124	Molex	43045-0811	8	2.49	2.25	1.95

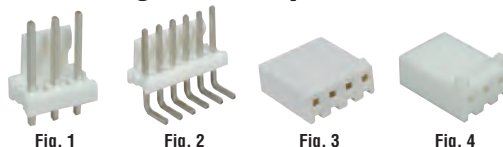
#### Vertical, Polarizing Peg, PCB – Tin (Fig. 12)

Part No.	Mfr.	Product No.	Pos.	1	10	100
337922	ValuePro	43045-0212	2	\$.25	\$.19	\$.15
338001	ValuePro	43045-0412	4	...25	...19	...15
338079	ValuePro	43045-0612	6	...25	...19	...15
338132	ValuePro	43045-0812	8	...29	...25	...19
338175	ValuePro	43045-1012	10	...29	...25	...19
338239	ValuePro	43045-1212	12	...29	...25	...19

## AMP .156" (3.96mm) Headers, Housings and Crimp Terminals

- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

★ Web Code: HHT



### Headers

\* Order in multiples of 10

#### Straight Friction Lock – Brass/Tin (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
879861	Molex	26-60-4020	2	\$.25	\$.15	\$.12
231546	AMP	640445-2	2	...25	...09	...07
879887	Molex	26-60-4030	3	...25	...19	...15
231554	AMP	640445-3	3	...25	...15	...12
879908	Molex	26-60-4040	4	...25	...19	...15
231562	AMP	640445-4	4	...25	...19	...15
104792	ValuePro	LMH4	4	...25	...15	...12
879941	Molex	26-60-4060	6	...25	...19	...15
104846	ValuePro	LMH10	10	...25	...19	...15

#### Right Angle Friction Lock – Copper/Tin (Fig. 2)

232400	AMP	640389-6	6	\$ .95	\$ .85	\$ .75
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### Crimp Terminals

- Plating: A: brass/tin;  
B: phosphor bronze/tin

Order in multiples of 10

Part No.	Mfr.	Product No.	Plating	AWG	10	100
736472	Molex	08-50-0105	A	18-20	\$.09	\$.05
736481	Molex	08-50-0106	A	18-20	...06	...05
462774	Molex	08-50-0165	†	18-20	...09	...08
736544	Molex	08-50-0189	A	18-20	...06	...05
736552	Molex	08-52-0071	B	18-20	...06	...04
736561	Molex	08-52-0072	B	18-20	...08	...06
736587	Molex	08-52-0113	A†	18-20	...06	...05
248866	AMP	640706-1	A	18-24	...25	...19
248874	AMP	640706-2	A	18-24	...19	...15
248882	AMP	640707-1	A	18-24	...19	...15
248903	AMP	770522-1	B	18-24	...25	...19
78319	ValuePro	JS-5001-T	A	18-24	...05	...04

† Trifurcon \* Cat ear

#### Vertical, Polarizing Peg, PCB – 30µ" Gold (Fig. 12)

Part No.	Mfr.	Product No.	Pos.	1	10	100
337931	ValuePro	43045-0214	2	\$.25	\$.19	\$.15
338010	ValuePro	43045-0414	4	...35	...29	...25
338087	ValuePro	43045-0614	6	...45	...39	...35
338141	ValuePro	43045-0814	8	...55	...49	...45
338183	ValuePro	43045-1014	10	...65	...55	...49
338247	ValuePro	43045-1214	12	...75	...65	...59

#### Vertical, Solder Tab, SMT – Tin (Fig. 13)

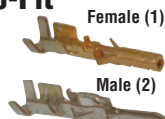
Part No.	Mfr.	Product No.	Pos.	1	10	100
337949	Molex	43045-0218	2	\$.95	\$.85	\$.75
338028	Molex	43045-0418	4	1.49	1.35	1.19
338095	Molex	43045-0618	6	1.69	1.49	1.35
338159	Molex	43045-0818	8	3.49	3.15	2.79
338191	Molex	43045-1018	10	1.95	1.75	1.55

#### Vertical, Solder Tab, SMT – 30µ" Gold (Fig. 13)

Part No.	Mfr.	Product No.	Pos.	1	10	100
337957	Molex	43045-0220	2	\$2.75	\$2.45	\$2.19
338108	Molex	43045-0620	6	3.95	3.49	3.15
338204	Molex	43045-1020	10	4.95	4.49	3.95

## .118" (3.00mm) Micro-Fit Crimp Terminals

- A: phosphor bronze, tin
- B: phosphor bronze, 15µ" gold
- C: phosphor bronze, 30µ" gold



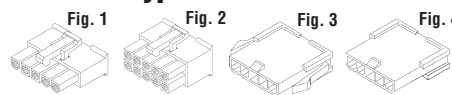
Part No.	Mfr.	Product No.	Type	AWG	10	100
883093	Molex	43030-0007	1A	20-24	\$.09	\$.07
337720	ValuePro	43030-0007	1A	20-24	...09	...08
337738	ValuePro	43030-0009	1B	26-30	...15	...12
337746	ValuePro	43030-0010	1A	20-24	...09	...08
337754	ValuePro	43030-0012	1C	26-30	...19	...15
883237	Molex	43031-0007	2A	20-24	...09	...08
337762	ValuePro	43031-0007	2A	20-24	...09	...08
337789	ValuePro	43031-0010	2A	26-30	...06	...05
337797	ValuePro	43031-0012	2C	26-30	...19	...15

## Tools for Micro-Fit Connectors



Part No.	Product No.	Description	Length	1	5
338678	HT-225D	Crimp	8.25"	\$24.95	\$22.49
338669	11-03-0043	Extraction	3.0"	14.95	13.49

## .165" (4.19mm) Mini-Fit Jr.™ Type Connectors



### Receptacles

#### Single Row (Fig. 1)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364584	ValuePro	39-01-4030	3	\$.25	\$.15	\$.12
364592	ValuePro	39-01-4040	4	...25	...15	...12

#### Double Row (Fig. 2)

Part No.	Mfr.	Product No.	Pos.	1	10	100
303562	Molex	39-01-2020	2	\$.35	\$.29	\$.25
364736	ValuePro	39-01-2020	2	...25	...09	...08
303571	Molex	39-01-2040	4	...39	...29	...25
364744	ValuePro	39-01-2040	4	...25	...12	...09
303589	Molex	39-01-2060	6	...39	...35	...29
364752	ValuePro	39-01-2060	6	...25	...12	...09
303597	Molex	39-01-2080	8	...55	...45	...35
364761	ValuePro	39-01-2080	8	...25	...19	...15
303600	Molex	39-01-2100	10	...35	...29	...25
364779	ValuePro	39-01-2100	10	...25	...15	...12
303618	Molex	39-01-2120	12	...45	...39	...35
364787	ValuePro	39-01-2120	12	...25	...19	...15
364795	ValuePro	39-01-2140	14	...39	...35	...29
364808	ValuePro	39-01-2160	16	...25	...19	...15
303642	Molex	39-01-2180	18	...59	...55	...49
303651	Molex	39-01-2200	20	...59	...45	...39
364824	ValuePro	39-01-2200	20	...29	...25	...19
303669	Molex	39-01-2220	22	...89	...79	...69
364832	ValuePro	39-01-2220	22	...29	...25	...19
303677	Molex	39-01-2240	24	...95	...85	...75
364841	ValuePro	39-01-2240	24	...29	...25	...19

\* Not for use with strain relief

### Plugs

#### Single Row, Panel Mount w/ Ears (Fig. 3)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364613	ValuePro	39-01-4032	3	\$.25	\$.19	\$.15
303829	Molex	39-01-4052	5	...35	...29	...25
364621	ValuePro	39-01-4052	5	...25	...19	...15

Continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

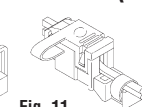
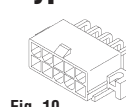
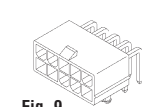
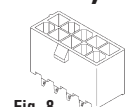
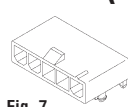
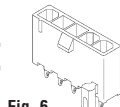
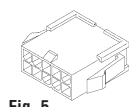


\* Web Code: MTC

## .165" (4.19mm) Mini-Fit Jr.™ Type Connectors (Continued)

molex®

JAMECO ValuePro



### Plugs

#### Single Row, Free Hanging (Fig. 4 – Previous Page)

Part No.	Mfr.	Product No.	Pos.	1	10	100
364630	ValuePro	39-01-4036	3	\$.25	\$.12	\$.09
303811	Molex	39-01-4046	4	...	.25	.19
364648	ValuePro	39-01-4046	4	...	.25	.12
364656	ValuePro	39-01-4056	5	...	.25	.12

#### Double Row, Panel Mount w/ Ears (Fig. 5)

Part No.	Mfr.	Product No.	Pos.	1	10	100
303685	Molex	39-01-2021	2	\$.35	\$.29	\$.25
364859	ValuePro	39-01-2021	2	...	.25	.19
303693	Molex	39-01-2041	4	...	.39	.35
364867	ValuePro	39-01-2041	4	...	.25	.19
303706	Molex	39-01-2061	6	...	.45	.39
364875	ValuePro	39-01-2061	6	...	.29	.25
364883	ValuePro	39-01-2081	8	...	.29	.25
303722	Molex	39-01-2101	10	...	.49	.39
364891	ValuePro	39-01-2101	10	...	.29	.25
303731	Molex	39-01-2121	12	...	.35	.29
364904	ValuePro	39-01-2121	12	...	.29	.25
303749	Molex	39-01-2141	14	...	.59	.49
364912	ValuePro	39-01-2141	14	...	.29	.25
303757	Molex	39-01-2161	16	...	.59	.49
364921	ValuePro	39-01-2161	16	...	.29	.25

### Single Row Headers

#### Vertical w/ Pegs & Drain Holes – Tin (Fig. 6)

Part No.	Mfr.	Product No.	Pos.	1	10	100
304573	Molex	39-30-2035	3	\$.29	\$.25	\$.19
364672	ValuePro	39-30-2035	3	...	.25	.19
304581	Molex	39-30-2045	4	...	.29	.25
364681	ValuePro	39-30-2045	4	...	.25	.19
304590	Molex	39-30-2056	5	...	.29	.25
364699	ValuePro	39-30-2056	5	...	.25	.19

#### Right Angle w/ Pegs – Tin (Fig. 7)

Part No.	Mfr.	Product No.	Pos.	1	10	100
304602	Molex	39-30-3035	3	\$.75	\$.65	\$.55
364701	ValuePro	39-30-3035	3	...	.25	.19
304611	Molex	39-30-3045	4	...	.85	.75
364710	ValuePro	39-30-3045	4	...	.25	.19
364728	ValuePro	39-30-3055	5	...	.25	.19

### Double Row Headers

#### Vertical w/o Pegs, w/o Drain Holes – Tin (Fig. 8)

Part No.	Mfr.	Product No.	Pos.	1	10	100
303845	Molex	39-28-1023	2	\$.35	\$.29	\$.25
364939	ValuePro	39-28-1023	2	...	.25	.19
364947	ValuePro	39-28-1043	4	...	.25	.19
364955	ValuePro	39-28-1063	6	...	.25	.19
364963	ValuePro	39-28-1083	8	...	.25	.19
364971	ValuePro	39-28-1103	10	...	.29	.25
364980	ValuePro	39-28-1123	12	...	.29	.25
303909	Molex	39-28-1143	14	1.49	1.35	1.19
364998	ValuePro	39-28-1143	14	...	.35	.29
365000	ValuePro	39-28-1163	16	...	.35	.29
303925	Molex	39-28-1183	18	1.69	1.49	1.25
365018	ValuePro	39-28-1183	18	...	.35	.29
365026	ValuePro	39-28-1203	20	...	.39	.35
303941	Molex	39-28-1223	22	2.15	1.95	1.75
365034	ValuePro	39-28-1223	22	...	.39	.35

### Double Row Headers (Continued)

#### Vertical w/o Pegs, w/o Drain Holes – 30µ" Gold (Fig. 8)

Part No.	Mfr.	Product No.	Pos.	1	10	100
365042	ValuePro	39-28-1243	24	\$.39	\$.35	\$.29
365051	ValuePro	39-29-0023	2	...	.45	.39
303976	Molex	39-29-0043	4	...	1.49	1.35
365069	ValuePro	39-29-0043	4	...	.49	.45
303984	Molex	39-29-0063	6	...	1.95	1.75
365077	ValuePro	39-29-0063	6	...	.69	.59
365085	ValuePro	39-29-0083	8	...	.89	.79
304004	Molex	39-29-0103	10	3.29	2.95	2.65
365093	ValuePro	39-29-0103	10	1.19	.95	.85
304012	Molex	39-29-0123	12	3.95	3.49	2.95
365106	ValuePro	39-29-0123	12	1.29	1.15	.95
304021	Molex	39-29-0143	14	4.49	3.95	3.49
365114	ValuePro	39-29-0143	14	1.49	1.35	1.19
304039	Molex	39-29-0163	16	4.95	4.45	3.95
365122	ValuePro	39-29-0163	16	1.95	1.75	1.59
304047	Molex	39-29-0183	18	5.95	5.35	4.79
365131	ValuePro	39-29-0183	18	1.89	1.69	1.49
304055	Molex	39-29-0203	20	6.95	6.25	5.59
365149	ValuePro	39-29-0203	20	2.95	2.65	2.39
304063	Molex	39-29-0223	22	7.49	6.75	5.95
365157	ValuePro	39-29-0223	22	2.19	1.95	1.75
304071	Molex	39-29-0243	24	7.95	7.15	6.39

#### Right Angle w/ Pegs – Tin (Fig. 9)

Part No.	Mfr.	Product No.	Pos.	1	10	100
365173	ValuePro	39-30-1020	2	\$.25	\$.15	\$.12
304098	Molex	39-30-1040	4	...	.59	.49
365181	ValuePro	39-30-1040	4	...	.25	.15
365190	ValuePro	39-30-1060	6	...	.25	.19
304119	Molex	39-30-1080	8	...	.85	.75
365202	ValuePro	39-30-1080	8	...	.25	.19
304127	Molex	39-30-1100	10	...	.95	.85
365211	ValuePro	39-30-1100	10	...	.29	.25
304135	Molex	39-30-1120	12	1.19	1.05	.95
365229	ValuePro	39-30-1120	12	...	.29	.25
304143	Molex	39-30-1140	14	1.35	1.19	1.05
365237	ValuePro	39-30-1140	14	...	.29	.25
365245	ValuePro	39-30-1160	16	...	.29	.25
304160	Molex	39-30-1180	18	1.79	1.59	1.45
365253	ValuePro	39-30-1180	18	...	.35	.29
365261	ValuePro	39-30-1200	20	...	.35	.29
365270	ValuePro	39-30-1220	22	...	.35	.29
304194	Molex	39-30-1240	24	2.75	2.49	2.25

#### Right Angle w/ Pegs – 30µ" Gold (Fig. 9)

Part No.	Mfr.	Product No.	Pos.	1	10	100
304207	Molex	39-30-1021	2	\$.95	\$.85	\$.75
365325	ValuePro	39-30-1021	2	...	.35	.29
365333	ValuePro	39-30-1041	4	...	.79	.69
304223	Molex	39-30-1061	6	1.49	1.35	1.19
365341	ValuePro	39-30-1061	6	1.19	1.05	.95
304231	Molex	39-30-1081	8	1.95	1.75	1.55
365350	ValuePro	39-30-1081	8	1.49	1.35	1.19
304258	Molex	39-30-1121	12	2.49	2.25	1.95
365376	ValuePro	39-30-1121	12	2.25	1.95	1.75
304266	Molex	39-30-1141	14	2.95	2.65	2.39
365384	ValuePro	39-30-1141	14	2.49	2.25	1.95
304274	Molex	39-30-1161	16	3.49	3.15	2.79

#### Right Angle w/ Pegs – 30µ" Gold (Fig. 9)(Cont.)

Part No.	Mfr.	Product No.	Pos.	1	10	100
365392	ValuePro	39-30-1161	16	\$.95	\$.65	\$.29
304282	Molex	39-30-1181	18	3.95	3.55	3.19
365405	ValuePro	39-30-1181	18	3.29	2.95	2.65
304291	Molex	39-30-1201	20	4.49	3.95	3.55
365413	ValuePro	39-30-1201	20	3.49	3.15	2.85
304303	Molex	39-30-1221	22	4.95	4.45	3.95
365421	ValuePro	39-30-1221	22	3.95	3.55	3.19
304311	Molex	39-30-1241	24	5.95	5.35	4.79
365430	ValuePro	39-30-1241	24	4.29	3.85	3.45

#### Right Angle w/ Flange – Tin (Fig. 10)

Part No.	Mfr.	Product No.	Pos.	1	10	100
304320	Molex	39-29-1028	2	\$.45	\$.39	\$.35
365448	ValuePro	39-29-1028	2	...	.25	.15
304338	Molex	39-29-1048	4	...	.69	.59
365456	ValuePro	39-29-1048	4	...	.25	.15
304346	Molex	39-29-1068	6	...	.85	.75
365464	ValuePro	39-29-1068	6	...	.25	.15
304354	Molex	39-29-1088	8	...	.89	.79
365472	ValuePro	39-29-1088	8	...	.25	.19
304362	Molex	39-29-1108	10	...	.95	.85
365481	ValuePro	39-29-1108	10	...	.25	.19
304371	Molex	39-29-1128	12	1.49	1.35	1.19
365499	ValuePro	39-29-1128	12	...	.25	.19
304389	Molex	39-29-1148	14	1.69	1.49	1.35
365501	ValuePro	39-29-1148	14	...	.29	.25
304397	Molex	39-29-1168	16	1.95	1.75	1.55
365510	ValuePro	39-29-1168	16	...	.29	.25
304400	Molex	39-29-1188	18	2.19	1.95	1.75
365528	ValuePro	39-29-1188	18	...	.35	.29
304418	Molex	39-29-1208	20	2.29	2.05	1.85
365536	ValuePro	39-29-1208	20	...	.35	.29
304426	Molex	39-29-1228	22	2.79	2.49	2.25
365544	ValuePro	39-29-1228	22	...	.35	.29
304434	Molex	39-29-1248	24	2.95	2.65	2.39
365552	ValuePro	39-29-1248	24	...	.39	.35

#### Right Angle w/ Flange – 30µ" Gold (Fig. 10)

Part No.	Mfr.	Product No.	Pos.	1	10	100
304442	Molex	39-29-5023	2	\$1.19	\$1.05	\$.95
365561	ValuePro	39-39-5023	2	...	.35	.29
304451	Molex	39-29-5043	4	1.39	1.25	1.09
365579	ValuePro	39-29-5043	4	...	.85	.75
304469	Molex	39-29-5063	6	1.69	1.49	1.35
365587	ValuePro	39-29-5063	6	1.19	1.05	.95
304477	Molex	39-29-5083	8	1.95	1.75	1.55
365595	ValuePro	39-29-5083	8	1.59	1.45	1.29
365608	ValuePro	39-29-5103	10	1.95	1.75	1.55
304493	Molex	39-29-5123	12	2.95	2.65	2.39
365616	ValuePro	39-29-5123	12	2.29	2.05	1.85
365632	ValuePro	39-29-5163	16	2.95	2.65	2.39
304522	Molex	39-29-5183	18	4.49	3.95	3.49
365641	ValuePro	39-29-5183	18	3.29	2.95	2.65
304531	Molex	39-29-5203	20	5.29	4.75	4.25
365659	ValuePro	39-29-5203	20	3.59	3.19	2.8

## .165" (4.19mm) Mini-Fit Jr.™ Type Terminals



- \*Type: A: Tin over nickel over brass  
B: 15µ" gold over nickel over brass  
C: 30µ" gold over nickel over brass  
D: Tin over nickel over phosphor bronze  
E: Brass or copper (post plated tin over nickel)  
F: 15µ" gold over nickel over phosphor bronze  
G: 30µ" gold over nickel over phosphor bronze  
H: Brass (post plated tin over nickel)  
I: Phosphor bronze (pre-plated gold over nickel)

### 22-28 AWG

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304872	Molex	39-00-0047	2A ... *	\$.14	\$.10	
365798	ValuePro	39-00-0088	1C ... *	\$.19	\$.15	
401841	ValuePro	39-00-0098	1B ... *	\$.15	\$.12	
401816	ValuePro	39-00-0123	1A ... *	\$.09	\$.08	
401752	ValuePro	39-00-0126	2D ... *	\$.09	\$.08	
304910	Molex	39-00-0166	2H ... *	\$.59	\$.49	\$.35
365915	ValuePro	39-00-0166	2C ... *	\$.19	\$.15	
401728	ValuePro	39-00-0172	2B ... *	\$.15	\$.12	
304899	Molex	39-00-0184	2I ... *	\$.69	\$.55	\$.45
365907	ValuePro	39-00-0184	2G ... *	\$.19	\$.15	
401787	ValuePro	39-00-0197	2F ... *	\$.15	\$.12	
401699	ValuePro	39-00-0210	2A ... *	\$.09	\$.08	
304881	Molex	39-00-0222	1I ... *	\$.65	\$.55	\$.45
304768	Molex	44478-1112	1I ... *	\$.19	\$.15	

### 18-24 AWG

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304733	Molex	39-00-0039	2A ... *	\$.07	\$.06	
304725	Molex	39-00-0041	1A ... *	\$.09	\$.08	
365747	ValuePro	39-00-0054	1C ... *	\$.19	\$.15	
401859	ValuePro	39-00-0076	1B ... *	\$.39	\$.35	\$.29
401824	ValuePro	39-00-0121	1A ... *	\$.09	\$.08	
365886	ValuePro	39-00-0164	2C ... *	\$.19	\$.15	
401736	ValuePro	39-00-0170	2B ... *	\$.39	\$.35	\$.29
304750	Molex	39-00-0182	2I ... *	\$.35	\$.29	\$.25
365851	ValuePro	39-00-0182	2G ... *	\$.19	\$.15	
401795	ValuePro	39-00-0195	2F ... *	\$.15	\$.12	
401701	ValuePro	39-00-0208	2A ... *	\$.09	\$.07	
304821	Molex	30490-1012	1I ... *	\$.65	\$.59	\$.55
304792	Molex	30490-2012	1I ... *	\$.29	\$.19	\$.15
884248	Molex	44476-111	2E ... *	\$.09	\$.08	
304776	Molex	44476-1112	2I ... *	\$.19	\$.15	
304784	Molex	44485-1212	2I ... *	\$.85	\$.75	\$.69

• Sold in 4000 piece reel

Part No.	Mfr.	Product No.	Type*	4000
307993	Molex	39-00-0038	2A	\$.03
307985	Molex	39-00-0040	1A	\$.03

### 16 AWG

\* Order in multiples of 10

Part No.	Mfr.	Product No.	Type*	1	10	100
304709	Molex	39-00-0096	1H ... *	\$.49	\$.45	\$.35
365704	ValuePro	39-00-0096	1C ... *	\$.19	\$.15	
401867	ValuePro	39-00-0099	1B ... *	\$.15	\$.12	
401832	ValuePro	39-00-0125	1A ... *	\$.09	\$.08	
365835	ValuePro	39-00-0168	2C ... *	\$.49	\$.45	\$.35
401744	ValuePro	39-00-0174	2B ... *	\$.15	\$.12	
365827	ValuePro	39-00-0186	2G ... *	\$.19	\$.15	
401808	ValuePro	39-00-0199	2F ... *	\$.15	\$.12	
401710	ValuePro	39-00-0212	2A ... *	\$.07	\$.06	
401779	ValuePro	39-00-0218	2D ... *	\$.06	\$.05	
304670	Molex	44476-3112	2H ... *	\$.19	\$.15	
304661	Molex	44478-3112	1E ... *	\$.19	\$.15	

## .165" (4.19mm) Mini-Fit BMI™ Plug

- Housing: UL94V-2 Nylon 6/6
- Operating temp: -40°C to +105°C
- Mates with 5557/42385/42474/43760 series receptacles
- Use 5558/44475/44478 series terminals
- Dual row with panel mount ears

Part No.	Product No.	Pos.	1	10	100
741386	15-06-0245	24	\$.125	\$.109	\$.95

## .197" (5mm) Pitch SPOX™ Housings

- Voltage: 250V
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing: nylon 6/6, UL 94V-2
- With locking ramp

Part No.	Product No.	Pos.	1	10	100
521560	10-63-3044	4	\$.45	\$.39	\$.35
521578	10-63-3054	5	\$.55	\$.49	\$.45

## Hand Tools for Mini-Fit Jr.™



304928: Crimp tool wire range from 14-24 AWG, 8.5"L

304936: Extraction tool, 3.5"L

308030: Cuts & strips 14-24 AWG, 8.3"L

227491: Cuts & strips 18-30 AWG, 8.3"L

Part No.	Mfr.	Product No.	1	5
304928	Molex	63811-1000	\$.49.95	\$44.95
304936	Molex	11-03-0044	19.95	18.95
308030	Waldom Electro.	W-HT-1919	14.95	13.95
227491	Waldom Electro.	W-HT-1921	14.95	13.95

## .100" (2.54mm) Keyed Shrouded Headers & Connectors

### CD-ROM 4-Pin

- Low profile
- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation res.: 1000MΩ min.
- Pin material: tin-plated brass
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding volt.: 1000VAC/1 min.
- Recommend crimp tool P/N 99443, pg 158

\* Order in multiples of 10

Part No.	Description	1	10	100
152741	Straight header	\$.49	\$.45	\$.39
152726	Rt. angle header	\$.59	\$.55	\$.49
152734	Single w/ latch	\$.49	\$.45	\$.39
181673	Female pins	\$.05	\$.04	

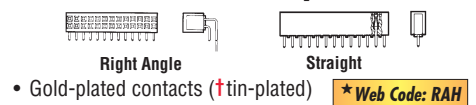
† P/N 152734 requires 4 pins (P/N 181673)

## AMP AMPMODU™ .100" (2.54mm) Receptacle

- Double row, center polarized, crimp snap-in (MOD IV)
- Black thermoplastic, flame retardant

Part No.	Product No.	Pos.	Width (in.)	1	10
496165	102387-3	16	0.980	\$.169	\$.149

## .100" (2.54mm) Female Header Receptacles



- Gold-plated contacts († tin-plated)

\* Web Code: RAH

Part No.	Mfr.	Contacts	1	10	100
71159	ValuePro+	20	\$.119	\$.105	\$.85

### Double Row Right Angle (Side Entry)

Part No.	Mfr.	Contacts	1	10	100
70755	ValuePro	8	\$.45	\$.35	\$.29
200783	ValuePro	12	\$.55	\$.45	\$.39
308592	ValuePro	16	\$.65	\$.55	\$.49
308567	ValuePro	20	\$.75	\$.69	\$.55

### Single Row Straight (Top Entry)

Part No.	Mfr.	Contacts	1	10	100
70721	ValuePro	16	\$.85	\$.75	\$.65
70827	ValuePro	20	\$.95	\$.85	\$.75
454539	Various	30	\$.95	\$.79	\$.65
105057	ValuePro	30	1.09	\$.95	\$.85
163862	Various	34†	\$.95	\$.85	\$.75
111705	ValuePro	40	1.29	1.15	\$.95

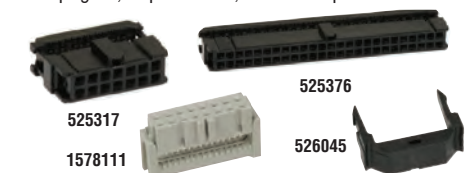
## .100" (2.54mm) IDC Ribbon Connectors

### Center and Military Polarized Receptacles

- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Housing, cover: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating

### Contact Plating:

- A: 30µ" gold, 50µ" min. tin
- B: 15µ" gold, 100µ"-200µ" tin
- C: 15µ" gold, 100-200µ" tin lead, all over 50µ" min. nickel
- D: 30µ" gold, 100-200µ" bright tin lead, all over 50µ" nickel
- E: 15µ" gold, 50µ" min. tin, all over 50µ" nickel



Part No.	Mfr.	Product No.	Pos.	Plating	1	10	100
901642	AMP	1658622-1	10	A	\$1.49	\$1.35	\$1.19
525309	AMP	746285-1	10	C	1.19	1.05	.95
742215	AMP	1658621-1	10	B	1.19	1.05	.95
1578082	3M	89110-0101	10	A	1.19	1.05	.95
525317	AMP	746285-2	14	C	1.39	1.25	.95
1578091	3M	89114-0101	14	A	1.95	.85	.75
525325	AMP	746285-3	16	C	1.45	1.29	1.05
1578111	3M	89116-0101	16	A	.95	.85	.75
525333	AMP	746285-4	20	C	1.49	1.35	1.09
901482	AMP	1658621-4	20	B	1.59	1.45	1.25
1578146	3M	89120-0101	20	A	.95	.85	.75
525413	AMP	746288-6	26	D	1.49	1.35	1.19
901520	AMP	1658621-6	26	E	1.95	1.85	1.55
525341	AMP	746285-6	26	C	1.69	1.49	1.35
1578171	3M	89126-0101	26	A	1.19	1.05	.95
525350	AMP	746285-8	34	C	1.79	1.49	1.29
1578197	3M	89134-010	34	A	1.29	1.15	1.05
525368	AMP	746285-9	40	C	1.95	1.75	1.55
525376	AMP	1-746288-0	50	D	2.85	2.55	2.29

### Strain Relief for NOVO Receptacles

Part No.	Mfr.	Product No.	Pos.	1	10	100
526045	AMP	499252-5	10	\$.29	\$.25	\$.19

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## AMP .100" (2.54mm) AMPLATCH™ Ribbon Connectors

Low-Profile Shrouded Headers with 0.150" End Dimension, Dual Row

- 0.120" solder tail
- 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contact: phosphor bronze



496085

Contact Plating:

- A: 30µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;  
 B: 30µ" gold on mating area, 100µ" min. tin on solder end, all over 50µ" nickel;  
 C: 15µ" gold in contact area, 100µ" ~ 200µ" tin/lead on solder tail, all over 50µ" nickel;  
 D: 15µ" gold in contact area, 100µ" ~ 200µ" tin on solder tail, all over 50µ" nickel

\* Web Code: UCB

Straight (no latch)

Part No.	Mfr. P/N	Pos.	Plating	1	10	100
496051	103309-1	10	A	\$.65	\$.59	\$.49
850216	5103308-1	10	D	.69	.59	.49
753571	5103309-2	14	B	1.35	1.19	1.05
753521	5103308-3	16	D	1.25	1.09	.95
496093	103309-5	20	A	1.49	1.35	1.19
496085	103308-5	20	C	1.19	1.05	.95
496296	103308-6	26	C	1.39	1.25	1.09
737723	103309-7	34	A	1.95	1.75	1.55
496114	103309-8	40	C	1.89	1.69	1.49

Right Angle (no latch)

Part No.	Mfr. P/N	Pos.	Plating	1	10	100
496131	103310-1	10	C	\$.95	\$.85	\$.75
737740	103310-2	14	C	1.29	1.05	.95
737774	103310-6	26	C	1.95	1.75	1.39

\* Latch DIP Plugs Online — Enter Web Code EAG

## JAMECO ValuePro .100" (2.54mm) Low Profile Male Shrouded Headers

Straight Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, right



68179

\* Web Code: JAH

Part No.	Product No.	Pos.	1	10	100
67812	7110-10SG	10	\$.49	\$.45	\$.39
68292	7110-20SG	20	.55	.49	.39
68583	7110-34SG	34	.89	.69	.49
181105	7110-40SG	40	1.49	1.15	.89

\*.200" Drive Power Connectors & Crimp Terminals Available Online — Enter Web Code ABU

## H IDC Connector Crimping Tool

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
73252	HT214	\$15.95	\$14.39	\$12.95

## .100" (2.54mm) Straight Male Headers

\* Web Code: VAQ

Double Row w/ Standard Latch

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, right below



71830

Part No.	Mfr.	Pins	1	10	100
117664	ValuePro	10-pin	\$.65	\$.55	\$.49
687720	Circuit Assembly	14-pin	.45	.35	.25
1928169	On Shore	16-pin	.49	.39	.29
71830	ValuePro	20-pin	.95	.85	.75
2076375	CW Ind.	20-pin	1.25	.95	.75
71933	ValuePro	26-pin	1.29	1.15	.95
1928177	On Shore	34-pin	.89	.69	.55
1928185	On Shore	34-pin	.89	.69	.55
72216	ValuePro	50-pin	1.49	1.35	1.19

† Right angle

## JAMECO ValuePro .100" & 2mm IDC Socket Connectors

Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 74)
- Contact material: phosphor bronze w/ 1µ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temp. rating: -55°C to +105°C
- Use crimp P/N 73252, below left



32564

\* Web Code: QAE

Polarized

Part No.	Product No.	Contacts	1	10	100
32492	8000-10	10	\$.29	\$.25	\$.19
153948	8000-14	14	.35	.29	.25
119467	8000-16	16	.39	.35	.29
32522	8000-20	20	.45	.39	.35
32564	8000-26	26	.49	.45	.39
32644	8000-34	34	.55	.49	.45
32679	8000-40	40	.59	.55	.49
100386	110-44	44 (2mm)	.59	.55	.49
32708	8000-50	50	.65	.59	.55
32759	8000-60	60	.89	.79	.69

Non-Polarized

Part No.	Product No.	Contacts	1	10	100
138325	8000-20NE	20	\$.29	\$.25	\$.19
138333	8000-26NE	26	.35	.29	.25
138341	8000-34NE	34	.39	.35	.29
138350	8000-40NE	40	.45	.39	.35
138368	8000-50NE	50	.49	.45	.39

\* Universal Connectors Online — Enter Web Code GAU

\* Four Wall Headers Online — Enter Web Code LDV

## PANAUSE

## Arbor Press, IDC Kit and Cable Cutter

2082601: 502 Arbor Press

- Precision ¼ ton (227kg) pressure
- 4 adjustable nylon gibs provide exceptional arm control
- Base footprint: 3.7" x 7" with 4 counter sunk holes
- 8" arm

2082601



2082610: 506 IDC Kit

- For low volume mass termination (up to 64-pin conductor wire) of various IDC connectors on ribbon cables

2082610



## 3M .100" (2.54mm) IDC Wiremount Socket Connectors

.100" x .100" for .050" Pitch Cables

- Insulation: glass filled polyester (PBT), gray, UL94V-0
- 100µ" nickel underplating & U-slot; 30µ" gold wiping area
- Copper alloy contacts
- Current rating: 1A
- Withstanding voltage: 1000V<sub>RMS</sub>
- Insulation resistance: 1MΩ @ 500VDC
- Accepts 26-28AWG solid or stranded wires
- Open end, center bump, military



\* Web Code: ADV

3000 Series With Strain Relief

Part No.	Mfr. Part No.	Pos.	1	10	100
1576407	3421-6620	20	\$3.95	\$3.55	\$3.19

8000 Series With Strain Relief

- Contact: phosphor bronze, 30µ" nickel underplating
- Without center bump

Part No.	Mfr. Part No.	Pos.	1	10	100
1578074	89110-0001	10	\$.85	\$.75	\$.69

## JAMECO ValuePro .100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 60
- Plastic with gold-plated contacts
- Current rating: 1A



42674

\* Web Code: KEF

Part No.	Prod. No.	Width	Contacts	1	10	100
42658	8200-14	0.3"	14	\$.45	\$.39	\$.35
42674	8200-16	0.3"	16	.55	.49	.45
104097	8200-20	0.3"	20	.65	.55	.49
42691	8200-24	0.6"	24	.75	.65	.55
99670	8200-28+	0.6"	28	.85	.75	.65
42712	8200-40	0.6"	40	.95	.85	.75

## JAMECO ValuePro .100" IDC Plug Connector

Double Row

- Shrouded header without mounting ears
- Plastic
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors above

JAMECO EXCLUSIVE

Part No.	Product No.	Contacts	1	10	100
29217	8400-50	50	\$1.95	\$1.65	\$1.25

## JAMECO ValuePro IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73252 IDC crimping tool, below left



Part No.	Description	1	10	100
13849	36-pin male	\$2.49	\$2.29	\$1.95



## JAMECO ValuePro .100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 74)
- Current rating: 1A • Housing material: plastic
- Pin material: brass/tin plated • 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use crimping P/N 159266, pg 158

### Single Row

\* Web Code: YAL

Part No.	Cross Ref.	Contacts	1	10	100
100812	SCH2R	2	\$.25	\$.15	\$.12
157383	SCH3R	3	.25	.19	.15
100803	SCH4R	4	.29	.25	.19
163686	SCH5	5	.35	.29	.25
103212	SCH6R	6	.39	.35	.29
103203	SCH8R	8	.45	.39	.35
103191	SCH10R	10	.49	.45	.39
103182	SCH20R	20	.55	.49	.45
103158	SCH36R	36	.59	.55	.49

### Double Row

\* Web Code: SAM

Part No.	Cross Ref.	Contacts	1	10	100
103254	DCH8R	8	\$.45	\$.39	\$.35
157421	DCH10R	10	.49	.45	.39
157438	DCH14	14	.49	.45	.39
103238	DCH16R	16	.49	.45	.39
103230	DCH20R	20	.55	.49	.45
157462	DCH40	40	.59	.55	.49
157472	DCH50R	50	.65	.59	.55

### Crimp Pins for Single/Double Row Housings

Part No.	Cross Ref.	Contacts	10	100	500
100766	FCH1R	Female pin	\$.15	\$.13	\$.09
145358	MCH1R	Male pin	.19	.15	.12

## .100" MTE AMPMODU Pin Housings

- Single row
- Latched polarization
- Mating lock connector
- 0.100" center line
- Black thermoplastic, UL94V-0



Part No.	Mfr. Part No.	Pos.	1	10	100
496392	103653-1R	2	\$.49	\$.45	\$.39
496405	103653-2R	3	.55	.49	.45
496413	103653-3R	4	.59	.55	.49

## PC Card-Edge Connectors

- Fits all PC boards
- 0.054" to 0.070" thick

### Solder Eyelet 0.140" Spacing Between Rows

Part No.	Mfr.	Positions	1	10	100
422983	Cinch	10/20	\$.25	\$.25	\$.23
39117	ValueProR	22/44	3.95	3.55	3.19

### Solder Tail 0.200" Spacing Between Rows

Part No.	Mfr.	Positions	1	10	100
40694	ValuePro+	31/62 (PC/AT)	\$.95	\$.89	\$.79
1945049	Various	50/100	.79	.69	.59

\* Card Edge Connectors Online — Enter Web Code YEE

## AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

### Single Row, Non-Polarized, Crimp Snap-In (MOD IV)

- No PC with UMN
- Black thermoplastic, flame retardant

Part No.	Mfr. Part No.	Pos.	Width	1	10	100
526871	87499-3R	2	0.205"	\$.95	\$.85	\$.75
526889	87499-5R	3	0.305"	.95	.85	.75
526897	87499-7R	4	0.405"	.95	.85	.75

### Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating:

527419: 15µ" gold in contact area, 100µ" – 200µ" bright tin lead, all over 50µ" nickel  
527486: Pre-plated 50µ" – 150µ" bright tin

Part No.	Mfr. Part No.	1	10	100
527419	87523-6	\$.35	\$.29	\$.25
527486	1-87523-6R	.25	.19	.15

## ARRIES DIP Headers

\* Web Code: XBS

### Series 600 Headers w/ Coined Contacts

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads

Part No.	Mfr. Part No.	Pos.	Width*	1	10	100
291120	08-600-10R	8	0.3"	\$.19	\$.105	\$.95
291312	14-600-10R	14	0.3"	1.49	1.29	1.05
291574	16-600-10R	16	0.3"	1.65	1.45	1.15
291996	24-600-10R	24	0.6"	2.55	2.25	1.85

\* Center to center pin width

## CA .100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

Part No.	Mfr. Part No.	Width	Pins	1	10	100
104337	08P-2R	0.3"	8	\$.129	\$.115	\$.105
37130	14P-2R	0.3"	14	1.55	1.35	.95
37331	16P-2R	0.3"	16	2.15	1.89	1.39

\* Keyboard Adapters Online — Enter Web Code RAV

\* Card Extenders Online — Enter Web Code PAA

\* PCB Connectors Online — Enter Web Code EEN

## We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs.

Send feedback to [Feedback@Jameco.com](mailto:Feedback@Jameco.com).

## CINCH Jones Plugs and Sockets

### Series 300 Multiple-Density Solder-Eyelet Connectors

- Insulation material: molded monoblock, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Current rating: 10 amps
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Hood material: UL 94V-0 rated thermoplastic

### Sockets with Hood and 180° Clamp

\* Web Code: WBP

Part No.	Mfr. Part No.	Contacts	1	10
248807	S-302H-CCTR	2	\$3.35	\$2.69
248823	S-304H-CCTR	4	4.95	4.25
248831	S-306H-CCTR	6	5.79	4.79

### Plugs with Hood and 180° Clamp

Part No.	Mfr. Part No.	Contacts	1	10
248760	P-302H-CCTR	2	\$2.95	\$2.65
248786	P-304H-CCTR	4	3.95	3.49
248794	P-306-CCT	6	4.49	3.95
445982	P-315-CCT	15	8.95	7.95

### Series 2400 Multiple-Density Solder-Eyelet Connector

- Current rating: 15A
- Current resistance: 1mΩ max.
- Operating voltage: 250VAC
- Plug prongs are 0.250"W x 0.55"Th.
- For use in cable-to-cable and cable-to-panel applications
- Socket contacts have solder eyelets with 0.093" dia.
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact plating: cadmium
- Contact material: plug-brass; socket-phosphor bronze
- Hood material: formed metal with dielectric liner

### Plug with Hood and 180° Clamp

\* Web Code: LCA

Part No.	Mfr. Part No.	Contacts	1	10	100
428197	P-2408-CCT	8	\$11.95	\$10.75	\$9.89

### Socket with Hood and 180° Clamp

Part No.	Mfr. Part No.	Contacts	1	10	100
444699	S-2408H-CCTR	8	\$8.79	\$7.95	\$7.35

## FT Connector Assembly SFP Small Form-Factor Pluggable

- Right angle 0.8mm pitch
- Contact: phosphor bronze
- Housing: high-temperature LCP UL94V-0 rated, black
- Plating: 0.38µ" min. gold in contact area, 13µ" min. gold in solder area, 38µ" min. nickel underplate

Part No.	Mfr. Part No.	Positions	1	10	100
741010	1367073-1R	20	\$2.49	\$2.25	\$2.15

## JAMECO ValuePro Mini DIN & DIN Panel Mount Female Sockets

- With solder lugs
- Metal body

Part No.	Cross Ref.	Description	1	10	100
2076754	MDPM5	5-pin mini DIN	\$1.19	\$1.05	\$.89
2076762	MDPM6R	6-pin mini DIN	1.29	1.15	.95
2076771	MDPM8R	8-pin mini DIN	1.39	1.25	1.09
15844	DINJ5R	5-pin DIN	.95	.75	.65
15852	DINJ6R	6-pin DIN	1.05	.85	.75
15861	DINJ8R	8-pin DIN	1.19	.95	.79

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Mini-DIN & DIN PC Mount Right Angle Female Sockets



- Set back: 0.5"
- 119475: Plastic/metal body    29399: Plastic body

### Unshielded (DIN)

Part No.	Cross Ref. No.	Description	1	10	100
29399	RD5+	5-pin DIN	\$.69	\$.59	\$.45

### Shielded (Mini DIN & DIN)

Part No.	Cross Ref. No.	Description	1	10	100
140791	MDR4S	4-pin mini DIN	\$.59	\$.55	\$.45
2076720	MDR5S	5-pin mini DIN	..75	..55	..45
119475	MDR6S	6-pin mini DIN	..89	..79	..69
207722	MDR8S	8-pin mini DIN	..95	..89	..69
2076746	MDR9S	9-pin mini DIN	1.19	1.09	..85
2077811	DRA5S	5-pin DIN	1.25	1.15	..89
29410	RD8	8-pin DIN	..95	..79	..65

## Mini-DIN & DIN Plugs & Receptacles



- Solder barrels w/ strain relief
- See pg 60 for cable

Part No.	Pins	Type	1	10	100
142280	4	Mini DIN plug	\$.85	\$.75	\$.69
142262	6	Mini DIN plug	..95	..85	..75
177244	6	Mini DIN receptacle	..95	..85	..75
111878	8	Mini DIN plug	1.09	..89	..75
177236	8	Mini DIN receptacle	1.19	1.09	..85
15879	5	DIN plug	..55	..45	..35
180873	5	DIN receptacle	..75	..59	..55
15887	6	DIN plug	..65	..49	..45
15895	8	DIN plug	..69	..55	..49

## Full Handshaking Null Modem Adapter

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

- Internal pin configuration: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20

Part No.	Description	1	10	100
17224	DB25 F to DB25 F	\$3.49	\$3.15	\$2.85

## Computer Card Brackets

- For securing cards into bus slots
- Fits PC/XT/AT cases
- Length: 4.75"
- See pg 68 for DB connectors



Part No.	Description	Fig.	1	10	100
11755	Blank back panel	1	\$.95	\$.85	\$.75
101717	For DB9 connector	2	..49	..39	..29
101733	For DB25 connector	3	..49	..39	..29
101742	For DC37 connector	4	..49	..39	..29
101831	For DB9/DB25 conn.	5	..49	..39	..29

## D-Sub 9-Pin to 25-Pin Serial Adapters

- For use in AT or other computer systems that have 9-pin D-sub serial ports

\*Web Code: AAA

664296: Thumbscrews on both sides

10321: For PC/XT systems with DB25 serial ports.

139986: Gold-plated contacts, extra long thumbscrews

163740/153576:

For PC/XT systems with DB25 serial ports.



Part No.	Description	1	10	100
10305	DB9 F to DB25 M	\$3.15	\$2.65	\$1.95
664296	DB9 M to DB25 M+	2.49	2.15	1.59
10321	DB9 M to DB25 F	4.49	3.95	3.65
163740	DB9 M to DB25 F, thumbscrews on DB9 side only	2.49	2.25	1.95
153576	DB9 M to DB25 F, thumbscrews on DB25 side only	2.95	2.49	1.95
139986	DB9 F to DB25 F	2.35	2.15	1.89

## D-Sub Gender Changers

- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

\*Web Code: LAB

Part No.	Description	1	10	100
16636	D-sub 9-pin male	\$1.95	\$1.75	\$1.59
16643	D-sub 9-pin female	2.25	1.95	1.75
22074	D-sub 25-pin female	1.95	1.75	1.59

## Slim-Line D-Sub Gender Changers



### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

\*Web Code: YAB

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
18498	9-pin male to male	\$2.49	\$2.25	\$1.95
18489	9-pin female to female	2.49	2.25	1.95
1945321	9-pin male to female (pass thru)	1.95	1.75	1.49
56071	15-pin male to male	2.95	2.65	2.39
56063	15-pin female to female	2.95	2.65	2.39
119320	15-pin female to female HD	2.95	2.65	2.39
119301	15-pin male to male HD	2.95	2.65	2.39
1945330	15-pin male to female HD	2.49	2.25	1.95
18447	25-pin male to male	2.95	2.65	2.39
18420	25-pin female to female	2.95	2.65	2.39
170085	25-pin male to female (pass thru)	2.95	2.65	2.39

**Need special orders or pricing?**  
Call us at 1-800-831-4242

## PCB Centronics Connector

- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body
- PC mount

\*Web Code: VAJ



Part No.	Description	1	10	100
72151	36-contact F, rt angle	\$2.95	\$2.49	\$1.85

## Panel Bracket Cable Assemblies

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector

\*Web Code: RAX

Part No.	Description	1	10	100
355688	DB9M to 10-pin header F	\$3.95	\$3.49	\$2.95
1952265	DB9F to 10-pin header F	3.95	3.49	2.95
149614	DB9M to 10-pin header & DB25M to 10-pin header	3.95	3.49	2.95
149623	DB25F to 26-pin header F	3.95	3.49	2.95

## SCSI Adapters

- 167370: DB25 female to HPDB50 male SCSI II
- 125241: 50-pin ribbon header to HPDB50 female SCSI II

Part No.	Description	1	10	100
167370	DB25 F to HPDB50 M	\$1.49	\$1.29	\$.95
125241	50-pin header to HPDB50 F	7.69	6.35	5.49

## PS/2 - USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.

- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse

Part No.	Length	Housing	1	10	100
645351	13"	USB adapter	\$10.95	\$9.95	\$8.95

## USB-A & B Connectors

### 1.0 & 2.0 Female Connectors



\*Web Code: DAZ

- PC mount right angle with board locks
- 2076551: Dual
- 230965/159724: Male crimp pins for 2.0

Part No.	Mfr.	Product No.	1	10	100
161024	ValuePro	1040	\$.89	\$.79	\$.69
2076551	KobiConn	UAR64-8W2100	..95	..79	..49
230958	ValuePro	USB-B-S-RA-WT	1.95	1.35	1.19
841053	AMP	292304-1	1.49	1.35	1.19
230965	ValuePro	TATBA000K	*	..09	..08
159724	ValuePro	20-P025G	*	..09	..08



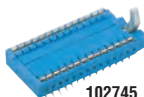


## Low Profile ZIF Sockets

### Series 526

\*Web Code: UBX

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max. • Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" (0.89mm) Dia.



Part No.	Mfr. P/N	Pins	L" x W"	1	10	100
296789	24-526-10	24	1.45 x .75	\$5.65	\$4.79	\$3.65
102745	28-526-10	28	1.64 x .75	7.95	7.15	6.45
102753	40-526-10	40	2.24 x .75	9.75	8.79	7.89



## SOIC/SOJ to DIP Adapters

\*Web Code: YBS

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins with 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028" (0.71mm) Dia.
- Center pins: 0.300" (7.62mm)



Part No.	Mfr. P/N	Pins	L"xW"	1	10	100
291208	08-350000-10	8	.400 x .46	\$5.95	\$5.35	\$4.79
291292	14-350000-10	14	.700 x .45	6.29	5.65	5.09
291515	16-350000-10	16	.800 x .45	6.39	5.75	5.15
291864	18-350000-10	18	.900 x .45	6.49	5.85	5.25
291980	24-350000-10	24	1.20 x .45	6.59	5.95	5.35



## Series 800 Vertisockets

### With Bifurcated Contacts

- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact current: 1.5A
- Contact plating: 100µ" (2.54µm) tin or 10µ" (.254µm) gold
- Gold plated • Center pins: 0.200"
- Suggested PCB hole size: 0.044" (1.12mm) dia.



Part No.	Product No.	Pins	L"xW"	1	10	100
291231	10-2810-90	10	1.0 x .29	\$4.49	\$3.95	\$3.55
291485	14-823-90	14	1.4 x .39	3.89	3.49	3.15



## High Temp. Universal ZIF Test Sockets

### Series 6554

\*Web Code: AAN

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature: -10: 221°F (105°C) – tin plating -11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600"
- Insulation res.: 1000MΩ • Contact current: 1A
- Dielectric withstanding voltage: 1000VAC



Part No.	Mfr. P/N	Pins	L" x W"	1	10	100
103992	24-6554-10	24	1.8 x 0.9	\$7.85	\$6.95	\$6.29
104003	28-6554-10	28	2.0 x 0.9	8.95	8.09	7.25
104012	32-6554-10	32	2.1 x 0.9	9.95	8.95	7.95
104030	40-6554-10	40	2.5 x 0.9	11.95	10.75	9.69
295162	28-6554-11	28	1.4 x 0.9	14.95	13.95	12.95
295209	32-6554-11	32	1.6 x 0.9	13.59	12.25	10.95
295233	40-6554-11	40	2.0 x 0.9	16.25	14.59	13.15



## Universal SOIC to .600" DIP Adapter

### Series 647

- Brass alloy female pin body with 200µ" (5.08µm) tin/lead plating
- Beryllium copper 4-fingered collet contact with 10µ" (0.25µm) gold over nickel plating
- Phosphor bronze alloy male pin with 200µ" (5.08µm) tin/lead plating • Contact current: 3A
- Suggested PCB hole size: 0.028" diameter



Part No.	Product No.	Pos.	1	10
295283	44-647-10	44	\$89.95	\$79.95

## Audio/Video Adapter

- Converts impedance of video/audio signals (NTSC & PAL) to 100Ω for transmission over CAT 5 UTP cable
- Video trans. distance: 1000' color/2000' black/white
- Signal pair: Video (BNC), CAT pair 1 (RJ45)



Part No.	Product No.	1	10
210471	BNC/RJ45 with cable	\$19.95	\$17.95



## HOLTITE Series Zero-Profile Press-Fit Sockets

- Contact res.: 10mΩ max. • Finish: gold
- Contact rating: 3A • Carrier strip: mylar
- Contact: beryllium copper
- Round lead: .025" to .035" dia. (848132); .016" to .021" dia. (620251)



Order in multiples of 10

Part No.	Product No.	10	100
620251	8134-HC-5P2	\$ .19	\$ .15
848132	8134-HC-8P2	.29	.25



## .100" Single-In-Line Strip Sockets



- Machine tooled
- Solder tail or wire wrap
- Standard lead length: .160" • Single or double row

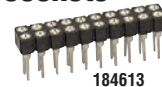
Part No.	Description	1	10	100
164822	4-pin straight single row	\$ .89	\$ .75	\$ .59
138684	5-pin straight single row	.95	.85	.65
102201	10-pin straight single row	1.19	.95	.75
78642	30-pin straight single row	1.49	1.29	.95
175920	36-pin straight single row	1.75	1.59	1.29
101283	20-pin WW2 single row	1.95	1.75	1.59
104054	30-pin WW3 single row	2.95	2.59	2.39

† Lead length: .435" (2) \* Lead length: .575" (3)



## Machine Contact Dual-In-Line Female Sockets

- 0.100" centers • Pin sleeve: tin
- Solder tail contact: .114"L
- Contact clip: gold



Part No.	Cross Ref. No.	Pins	1	10	100
212856	SA101000	10	\$1.95	\$1.75	\$1.59
212863	SA121000	12	2.05	1.85	1.65
212871	SA141000	14	2.19	1.95	1.75
212880	SA161000	16	2.29	2.05	1.85
184613	SA201000	20	2.49	2.25	2.05
212901	SA221000	22	2.59	2.35	2.09
212919	SA241000	24	2.69	2.45	2.19
212936	SA481000	48	2.95	2.65	2.39

# High-Frequency Connectors & Adapters

## RF Adapters

\*Web Code: DAX



Part No.	Manufacturer	Product No.	Description	1	10	50
153454	ValuePro	SB-321	SMA female to BNC male adapter	\$2.59	\$2.29	\$2.09
159469	ValuePro	CH-7830-N	SMA female to BNC female adapter	3.59	3.09	2.89
153593	ValuePro	4288	SMA male to BNC male adapter	4.59	4.15	3.65
159477	ValuePro	CH-7820-N	SMA male to BNC female adapter	3.95	3.55	3.25
159477	Amphenol Connex	242123	SMA in-line jack to BNC jack	8.49	7.05	6.65
1591730	Amphenol Connex	242181	SMA bulkhead jack to BNC jack	12.89	11.55	11.25
1951801	Amphenol Connex	242103	SMA in-line jack to BNC plug	9.79	7.65	7.29
1951692	Amphenol Connex	242102	SMA in-line plug to BNC jack	4.79	3.75	3.65
1951713	Amphenol Connex	242113	SMA in-line jack to N plug	7.45	6.19	5.95
1951932	Amphenol Connex	242115	SMA in-line jack to N jack	9.39	7.79	7.49
1951668	Amphenol Connex	242125	SMA bulkhead jack to N jack	8.45	7.25	6.59
1951810	Amphenol Connex	242163	SMA jack to N jack, panel mount	8.95	7.49	7.25
1951756	Amphenol Connex	242112	SMA in-line plug to N jack	9.39	7.75	7.45
1952126	Amphenol Connex	242112RP	SMA in-line plug to N jack (reverse polarity)	10.65	7.75	7.45
1951879	Amphenol Connex	242114	SMA in-line plug to N plug	9.29	7.75	7.45
1951887	Amphenol Connex	2421124	SMA in-line plug to TNC jack	9.35	7.75	7.45
1951772	Amphenol Connex	242105	SMA in-line jack to TNC plug	6.95	5.95	5.49

Continued on next page

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





RF Adapters (Continued)					* Web Code: DAX		
Part No.	Manufacturer	Product No.	Description		1	10	50
1951684	Amphenol Connex	242145	SMA in-line jack to SMB plug		\$12.49	\$10.65	\$10.39
1951748	Amphenol Connex	242149	BNC in-line jack to TNC plug		5.89	4.75	4.45
207168	ValuePro	BJ-7072	RCA female to BNC female		2.39	2.15	1.89
114789	ValuePro	BR312	RCA female to BNC male adapter		1.59	1.25	1.15
207176	ValuePro	BJ-7055	RCA male to BNC male		3.09	2.75	2.45
114753	ValuePro	RB312+	RCA male to BNC female adapter		1.59	1.45	1.29
114770	ValuePro	200-108	BNC female to F connector male adapter		1.79	1.59	1.39
174255	ValuePro	TBC-176	BNC male to F connector female		2.35	1.85	1.69
309657	ValuePro	200-045	RCA female to F male adapter		1.95	1.75	1.55

## 50Ω TNC Connectors

Part No.	Manufacturer	Product No.	Description		1	10	50
658611	Amphenol Connex	122140	Right angle crimp/solder plug (RG-58/58A/58C/141/303)		\$3.25	\$2.95	\$2.85
296163	Amphenol Connex	122372	Straight crimp plug (RG-55/142/223/400)		1.59	1.45	1.39
296155	Amphenol Connex	122108	Plug crimp-crimp (RG-58/141)		1.49	1.35	1.19

## 50Ω MMCX Connectors

Part No.	Manufacturer	Product No.	Description		1	10	50
311686	ValuePro	908-43200	Right angle plug, crimp (RG-178/U)		\$3.79	\$3.39	\$3.05
311693	ValuePro	908-43300	Right angle plug, crimp (RG-174/188/316)		2.79	2.49	2.25

## UHF Connectors & Adapters

Part No.	Manufacturer	Product No.	Description		1	10	50
223837	Amphenol RF	83-1T	In-series T-adapter, jack-plug-jack		\$9.95	\$8.95	\$7.95
668377	Amphenol Connex	182106	PL-259 Straight adapter, nickel finish, phenolic insulator		3.25	2.95	2.75
668385	Amphenol Connex	182107	UG-175-U Reducing adapter, nickel finish, for 668377		.55	.49	.39

## 50Ω Type N Connectors

Part No.	Manufacturer	Product No.	Fig.	Description		1	10	50
697039	Amphenol RF	82-66	1	Jack-to-jack adapter, water tight		\$34.95	\$31.49	\$28.49
311600	ValuePro	82-97	2	50Ω receptacle jack, panel mount		3.65	2.95	2.55
311619	ValuePro	82-202-1006	3	N-clamp plugs, for B9913/TWB301 cables		4.49	3.95	3.55
296454	Amphenol Connex	172100	4	Crimp plug captive contact (RG-58/58A/58C/141/303/LMR195/B7806A)		3.95	3.55	3.19
296489	Amphenol Connex	172103	5	Crimp jack captive contact (RG-58/58A/58C/141/303/LMR195/B7806A)		3.95	3.49	3.15
659278	Amphenol Connex	172119	6	Panel receptacle jack, solder terminal (all 50Ω coax cables)		6.95	6.25	5.59
659286	Amphenol Connex	172122	7	Plug-to-plug adapter (all 50Ω coax cables)		6.85	6.55	6.19
1956581	Amphenol Connex	172123A	8	Jack-to-jack adapter		4.29	3.49	3.19
659294	Amphenol Connex	172123	9	Jack-to-jack adapter		4.95	4.45	3.95
659307	Amphenol Connex	172124	10	Bulkhead jack-to-jack adapter		8.95	7.95	7.15
659315	Amphenol Connex	172126	11	Angled plug-to-jack adapter		9.95	8.95	7.95
296518	Amphenol Connex	172129	12	Bulkhead crimp jack captive contact (RG-174/188A/316/B7805A)		6.29	5.39	4.95
296569	Amphenol Connex	172138	12	Bulkhead solder jack, .085 semi-rigid (RG-405/U)		6.35	5.79	5.45
296585	Amphenol Connex	172165	12	Bulkhead crimp jack captive contact (RG-316/U double braided)		5.95	5.39	4.85
659235	Amphenol Connex	172173	13	Crimp panel jack captive contact (RG-174/188A/316/B7805A)		7.55	7.15	6.75
659171	Amphenol Connex	172180	14	Right angle crimp plug (RG-174/188A/316/B7805A)		7.95	7.49	6.95

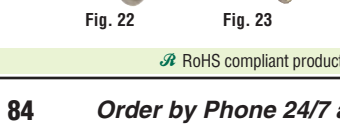
\* Use crimp tool 667921 (pg 85)

## 75Ω "F" Connectors, Adapters & Terminators

Part No.	Manufacturer	Product No.	Fig.	Description		1	10	50
291531	ValuePro	200-028	15	Perma-seal, RG-6 coax		\$ .79	\$ .69	\$ .65
291725	ValuePro	200-051	16	F-jack to jack (gold)		1.39	1.25	1.15
295371	ValuePro	200-053	17	F-panel mount jack to jack (nickel)		.29	.25	.19
295380	ValuePro	200-107	18	F-right angle jack to plug (nickel)		2.35	1.95	1.65
1952943	Foxconn	200-190	19	F-right angle PC mount jack (90° barrel)		.95	.85	.75
289887	ValuePro	200-035	20	F-crimp on for RG-6, nickel plated		.25	.19	.15

## 50Ω/75Ω BNC Connectors and Adapters

Part No.	Manufacturer	Product No.	Fig.	Description		1	10	50
355099	ValuePro	31-2	21	50Ω plug, clamp, for RG-58/141/142/400 (UG-88/U)		\$2.95	\$2.65	\$2.39
223431	Amphenol RF	31-202	21	50Ω plug, solder cup, for RG-141/58/58C/B7806A		5.29	4.49	3.25
355135	ValuePro	31-212	21	50Ω/75Ω plug, clamp, for RG-59/62/140/302		2.95	2.65	2.39
311378	ValuePro	31-315	22	50Ω plug, 3 pcs, crimp, for RG-174; 188/U		4.95	4.49	3.95
355216	ValuePro	31-315-RFX	23	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U		1.95	1.75	1.55
188349	Amphenol RF	31-315-RFX	23	50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U		2.29	1.95	1.75
188306	Amphenol RF	31-320-RFX	23	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A		1.49	1.25	1.15





## Plugs

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
355240	ValuePro	31-320-RFX	1	50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A	\$1.79	\$1.59	\$1.39
311394	ValuePro	31-321	2	50Ω plug, 3 pcs, crimp, for RG-59/U	3.49	3.15	2.79
311408	ValuePro	31-321-RFX	2	50Ω plug, 3 pcs, crimp, for RG-59	1.49	1.25	1.19
135618	ValuePro	200-141	1	75Ω plug, 3 pcs, crimp, for RG-6	1.39	1.19	1.09
71781	ValuePro	200-142	3	75Ω plug, twist-on, for RG-59	1.25	1.15	.95
71271	ValuePro	200-143	1	75Ω plug, 3 pcs, crimp, for RG-59	1.15	.95	.89
119394	ValuePro	200-144	4	75Ω plug, clamp-on, for RG-59	1.39	1.29	1.19
71482	ValuePro	200-145	1	50Ω plug, 3 pcs, crimp, for RG-58	1.65	1.49	1.45
108994	ValuePro	200-146	3	50Ω plug, twist-on, for RG-58	1.25	1.15	.95
355362	ValuePro	6775	5	50Ω plug, clamp, for RG-8/9/87A/213/214/225	3.95	3.49	2.95
295953	Amphenol Connex	112116.8*	6	50Ω crimp plug, captive contact, for RG-58/58A/58C/141/303	1.49	1.35	1.19
296008	Amphenol Connex	112132.8	6	50Ω crimp plug, captive contact, for RG-174/188A/316/B7805A	2.49	2.25	1.75
311319	ValuePro	68175-5RFX	2	50Ω/75Ω plug, 3 pcs, crimp, for RG-59	1.29	1.15	.89
311327	ValuePro	69475+	5	50Ω/75Ω plug, clamp, for RG-174/179/187/188/316	2.89	2.59	2.35
207183	ValuePro	BJ-70941	7	50Ω/75Ω male clamp-on, for RG-58/59	2.95	2.75	2.49
112110	ValuePro	G7409.8	1	50Ω male with pin and ferrule, for RG-174	3.59	3.25	2.95
311511	ValuePro	31-7000	8	75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248	3.29	2.95	2.65
311520	ValuePro	31-70008-1000	8	75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209	5.59	5.09	3.79
311538	ValuePro	31-71000-RFX	9	75Ω plug, 3 pcs, crimp, for RG-6/212; Belden 9290/89248	1.89	1.75	1.35
311546	ValuePro	31-71008-RFX	9	75Ω plug, 3 pcs, crimp, for RG-59/62; Belden 8241/8263/8279/9209	1.89	1.49	1.39
311554	ValuePro	31-71013-RFX	10	75Ω plug, 3 pcs, crimp, for RG-179/179B/187A; Belden 9221	1.95	1.75	1.59
311572	ValuePro	31-71032.8	1	75Ω plug, 3 pcs, crimp, for RG-59/140; Belden 8241/8279	2.95	2.49	1.95
295970	Amphenol Connex	112119.8*	6	75Ω crimp plug, captive contact, for RG-59/62/140/210	1.75	1.65	1.45
296016	Amphenol Connex	112133.8†	6	75Ω crimp plug, captive contact, for RG-179/187/B9221	2.25	1.95	1.75

## Terminators

71458	ValuePro	B-611T	11	BNC male terminator (50Ω)	\$1.95	\$1.39	\$1.19
71790	ValuePro	200-177	11	BNC male terminator (75Ω, 5%)	1.65	1.29	1.09
658540	Amphenol Connex	202100.8	12	Male cap with chain	2.15	2.05	1.95
658523	Amphenol Connex	202103.8	13	50Ω terminator plug	2.25	1.89	1.69
658531	Amphenol Connex	202105.8	13	75Ω terminator plug	2.15	2.05	1.95

\* Use tool 667850, below † Use tool 667905, below

## Jacks

Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
355120	ValuePro	31-203.8	14	50Ω jack, panel mount, solder cup	\$3.95	\$3.55	\$3.19
355224	ValuePro	31-318-RFX.8	15	50Ω bulkhead jack, crimp, for RG-174/U; 188A/U; 316/U	2.95	2.75	2.25
355178	ValuePro	31-221+	16	50Ω jack, panel mount, solder cup (UG-1094/U)	1.95	1.75	1.59
223511	Amphenol RF	31-221.8	17	50Ω jack, panel mount, solder cup	2.49	2.25	1.95
658401	Amphenol Connex	112235.8†	18	75Ω bulkhead jack, crimp, for RG-179/U; 187A/U	2.95	2.65	2.39
296059	Amphenol Connex	112404.8	19	50Ω jack, PCB mount, for all 50Ω coax cables	1.65	1.55	1.49
658427	Amphenol Connex	112424.8	20	50Ω bulkhead jack, solder terminal	1.85	1.65	1.49
296067	Amphenol Connex	112431.8	21	50Ω bulkhead jack, isolated, solder terminal	3.29	3.19	2.95
658380	Amphenol Connex	112505.8	18	50Ω bulkhead jack, crimp, for RG-55/U; 142A/U; 223/U; 400/U	3.25	3.05	2.95
658443	Amphenol Connex	112538.8	22	50Ω jack, PCB mount, for all 50Ω coax cables	1.75	1.65	1.59
493917	AMP	227161-3	23	50Ω jack, right angle, PCB	2.49	2.25	1.95
421331	AMP	227726-3	24	50Ω jack, isolated, solder	2.49	2.25	1.95
111561	ValuePro	200-148	25	Jack, isolated, panel mount	2.29	1.95	1.79
160929	ValuePro	B211F-58.8	26	Jack, crimp type, for RG-58	1.49	1.25	1.15
161922	ValuePro	B211F-174.8	26	Jack, crimp type, for RG-174	1.95	1.65	1.45
2077618	Various	BNC-CR	27	Jack, chassis PCB receptacle	1.49	1.25	.95
146511	ValuePro	CH-7044S.8	28	Jack, right angle, plastic insulation, PC mount, w/ washer & nut	2.69	2.39	2.05
161656	ValuePro	CH-7087D+	29	Jack, right angle, metal, PC mount	2.19	2.09	1.59
71590	ValuePro	G1B235.8	30	Jack, panel mount (UG-1094A)	1.95	1.79	1.65
1952821	Foxconn	KDA1001-H0	31	Jack, right angle, plastic insulation, PC mount	.95	.89	.75
174290	ValuePro	TBC-090.8	14	Jack, chassis mount	1.85	1.59	1.19
174297	ValuePro	TBC-101	32	Jack, twist on, bulkhead	2.25	1.95	1.65

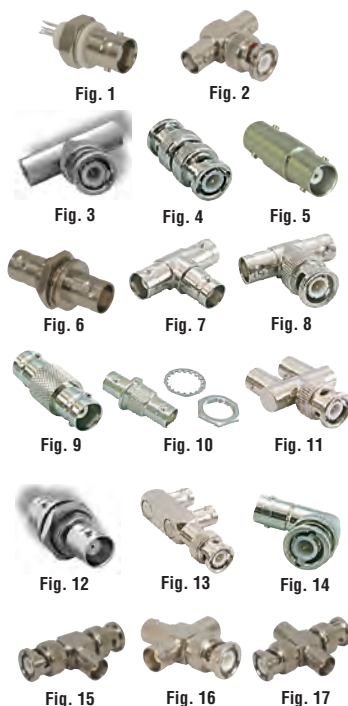
## Universal Hand Crimp Tools

Part No.	Manufacturer	Product No.	Die Cavities (in.)	Cable Groups	1	5
667850	Amphenol Connex	47-10070	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400 (BNC/TNC)	\$74.95	\$69.95
667905	Amphenol Connex	47-10150	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196 (BNC/TNC)	74.95	69.95
667921	Amphenol Connex	47-10180	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors	74.95	69.95
261745	Various	DL-806A	—	For RG-58/59, BNC/TNC connectors with 3/8" ferrule	19.95	18.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 50Ω/75Ω BNC Connectors and Adapters (Continued)

### Adapters/Couplers



Part No.	Manufacturer	Product No.	Fig.	Description	1	10	50
311344	ValuePro	31-10-RFX <sup>R</sup>	1	50Ω jack, bulkhead	\$2.45	\$2.25	\$1.95
188429	Amphenol RF	31-208-RFX <sup>R</sup>	2	Jack-plug-jack	4.49	3.95	3.55
355128	ValuePro	31-208-RFX <sup>R</sup>	3	50Ω T-adapter, jack-plug-jack	2.95	2.65	2.39
363961	ValuePro	31-218	4	50Ω straight adapter, plug-plug (UG-491A/U)	3.95	3.55	3.19
188411	Amphenol RF	31-219-RFX <sup>R</sup>	5	50Ω straight adapter, jack-jack	3.95	3.49	3.15
355152	ValuePro	31-219-RFX <sup>R</sup>	5	50Ω straight adapter, jack-jack (UG-914/U)	3.25	2.39	2.09
311351	ValuePro	31-220N-RFX	6	50Ω bulkhead adapter, jack-jack	2.95	2.69	2.39
72629	ValuePro	200-150	7	Female to female/female T-adapter	1.95	1.75	1.55
118594	ValuePro	200-155	8	Male to female/female T-adapter	1.95	1.75	1.55
71909	ValuePro	200-160	9	Female/female coupler (UG-914)	1.29	.95	.85
148224	ValuePro	200-165	10	Coupler, jack-jack, panel mount	1.95	1.89	1.69
100597	ValuePro	40958-Y	11	Male to female/female T-adapter (180°)	6.95	6.25	5.65
658451	Amphenol Connex	112437 <sup>R</sup>	12	50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables)	2.95	2.85	2.75
658507	Amphenol Connex	112445 <sup>R</sup>	5	50Ω straight adapter, jack-jack	2.69	2.49	2.25
296083	Amphenol Connex	112446 <sup>R</sup>	5	75Ω straight adapter, jack-jack	2.25	1.89	1.69
658515	Amphenol Connex	112461 <sup>R</sup>	3	50Ω T-adapter, jack-plug-jack	2.39	2.19	1.95
117461	ValuePro	B-068	13	Male to female/female F-adapter (90°)	4.35	3.95	3.55
127343	ValuePro	B-311	4	Male/male coupler (UG-491B/U)	2.39	2.05	1.69
148232	ValuePro	B-332-IF	10	Coupler, jack-jack, isolated	2.49	1.95	1.49
127352	ValuePro	B-412 <sup>R</sup>	14	Male to female right angle (DG-306B/O)	3.79	2.85	2.15
207095	ValuePro	BJ-7079	15	Female to male/male T-adapter	4.95	4.45	3.95
207116	ValuePro	BJ-7082	16	Male to female/female/female T-adapter	4.95	4.45	3.95
207124	ValuePro	BJ-70823 <sup>⊗</sup>	17	Male/male to female/female to adapter	4.49	4.05	3.25

⊗ Blue Part No. = Limited Quantity Available

## SMA/SMB Connectors

### SMA Connectors (50Ω)

\* Web Code: YBB



Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
157972	ValuePro	19-03F-4TGG	18	Straight crimp type male plug (RG-58)	Gold	\$3.95	\$3.59	\$3.29
145382	ValuePro	19-46G <sup>R</sup>	19	Straight female PCB mount, 4 legs	Gold	3.95	3.59	3.29
145374	ValuePro	19-49G <sup>R</sup>	20	90° female PCB mount, 4 legs	Gold	3.95	3.59	2.95
355283	ValuePro	901-143-6-RFX <sup>R</sup>	21	Jack, right angle, PC mount	Gold	4.95	4.45	3.95
188525	Amphenol RF	901-143-6-RFX <sup>R</sup>	21	Jack, right angle, PC mount	Gold	6.95	6.25	5.59
188509	Amphenol RF	901-144-8-RFX <sup>R</sup>	19	Jack, right angle, PC mount	Gold	3.49	3.15	2.85
355292	ValuePro	901-9876-RFX <sup>R</sup>	22	Straight plug, crimp (RG-58/U; RG-58C/U; 141)	Nickel	2.55	2.19	1.79
188488	Amphenol RF	901-9877-RFX <sup>R</sup>	23	Straight plug, crimp (RG-174/U; RG-188A/U; RG-316/U)	Gold	2.95	2.65	2.39
355304	ValuePro	901-9877-RFX <sup>R</sup>	23	Straight plug, crimp (RG-174/U; RG-188A/U; RG-316/U)	Gold	2.49	2.25	1.95
153366	ValuePro	4804 <sup>R</sup>	23	Straight crimp type male plug (RG-174)	Gold	4.39	3.95	3.55
296227	Amphenol Connex	132101 <sup>R</sup>	24	Straight cable plug w/ contact (RG-405U)	Gold	2.95	2.65	2.39
296251	Amphenol Connex	132105 <sup>R</sup>	25	Bulkhead feed-through jack (RG-405U)	Gold	5.19	4.45	4.09
296315	Amphenol Connex	132113 <sup>R</sup>	24	Straight crimp plug (RG-58/58A/58C/141/303)	Gold	3.19	2.75	2.39
296323	Amphenol Connex	132114 <sup>R</sup>	24	Straight crimp plug (RG-174/188/316/B7805A)	Gold	3.49	3.15	2.79
658849	Amphenol Connex	132118 <sup>R</sup>	26	Bulkhead crimp plug (RG-58/58A/58C/141/303)	Gold	4.55	3.89	3.55
296331	Amphenol Connex	132119 <sup>R*</sup>	26	Bulkhead crimp jack (RG-174/188A/316/B7805A)	Gold	4.95	4.45	3.95
296366	Amphenol Connex	132123 <sup>R</sup>	27	Right angle crimp plug (RG-174/188A/316/B7815A)	Gold	5.85	5.59	5.29
296374	Amphenol Connex	132134 <sup>R</sup>	19	Straight jack, PCB	Gold	3.95	3.55	3.19
658996	Amphenol Connex	132136 <sup>R</sup>	20	Right angle jack, PCB	Gold	6.89	6.49	6.15
658961	Amphenol Connex	132198 <sup>R</sup>	28	Straight crimp jack (RG-316U double braided)	Gold	4.19	4.05	3.89
159531	ValuePro	CH-7814 <sup>R</sup> 1	29	Female panel mount, 4 mounting holes (G-58/174)	Gold	3.75	3.15	2.95
160022	ValuePro	CH-7815-G <sup>R</sup> 1	30	Female panel mount, 2 mounting holes (RG-58/174)	Gold	4.79	3.75	3.55
160013	ValuePro	CH-7818-N <sup>R</sup>	31	Panel mount feed thru, female-female	Nickel	4.95	4.25	3.75
153286	ValuePro	SMA-7813 <sup>R</sup>	32	Bulkhead solder female w/ washer, rear mount (RG-58/174)	Gold	2.95	2.65	2.39

\* Use crimp tool 667905, pg 85

† Use crimp tool 667921, pg 85

1 Solder cup

### SMB Connectors

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
444824	Cinch	SMB50-1301	33	50Ω jack, straight, PCB mount	Gold	\$3.59	\$3.25	\$2.95
659358	Amphenol Connex	142186 <sup>R</sup>	34	Straight crimp plug (RG-174/188A/316/B7805A)	Gold	5.49	4.95	4.49
167312	ValuePro	24-12-TGG-R <sup>R</sup>	35	Right angle jack, PCB mount	Gold	4.45	3.89	3.45
172364	ValuePro	24-07L-1-TGG <sup>R</sup>	36	50Ω bulkhead crimp jack	Gold	2.95	2.65	2.39
172372	ValuePro	24-05L-1-TGG-R <sup>R</sup>	37	50Ω cable crimp plug	Gold	2.95	2.65	2.39

SMA/SMB Adapters, Couplers & Terminator on next page

Ⓡ RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.



# SMA/SMB Connectors, Adapters, BNC Cables & Fiber Optics

## SMA Adapters



### SMA Adapters, Couplers & Terminator

Part No.	Manufacturer	Product No.	Fig.	Description	Plating	1	10	50
659032	Amphenol Connex	132168	1	50Ω plug-to-plug adapter	Gold	\$5.95	\$5.35	\$4.79
659041	Amphenol Connex	132169	2	50Ω jack-to-jack adapter	Gold	5.49	4.95	4.45
659059	Amphenol Connex	132170	3	50Ω jack-to-jack adapter, bulkhead feedthru	Gold	6.49	6.25	5.95
659067	Amphenol Connex	132171	4	50Ω plug-to-jack adapter	Gold	5.49	4.95	4.45
659075	Amphenol Connex	132172	5	50Ω right angle plug-to-jack adapter	Gold	7.95	7.25	6.95
659091	Amphenol Connex	132360	6	Terminator plug	Gold	2.45	2.25	1.95
659083	Amphenol Connex	202112	6	Plug cap	Nickel	1.49	1.35	1.25
161294	ValuePro	S-311-G	7	Straight coupler male-male	Gold	2.95	2.65	2.39
161307	ValuePro	S-412-G	8	Right angle coupler male-female	Gold	4.95	4.45	3.95
153294	ValuePro	SMA-7817	9	Straight coupler female - jack-to-jack	Gold	3.49	3.15	2.79

## SMA/SMB 50Ω Coax Cables



Fig. 1: SMA male to SMA male  
Fig. 2: SMA male to SMA right angle male  
Fig. 3: SMA right angle male to SMA right angle male  
Fig. 4: SMB plug to SMB plug

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159371	RG-58	1	2	\$5.49	\$5.25	\$4.95
159397	RG-58	1	6	5.95	5.35	4.79
169801	RG-174	1	0	5.59	4.75	4.19
163855	RG-174	1	1	4.95	4.65	4.09
153382	RG-174	1	2	4.95	4.25	3.39
153391	RG-174	1	4	5.89	5.09	4.59
159451	RG-174	1	6	7.95	7.19	6.49
175127	RG-174	2	0.5	4.95	4.49	3.95
175135	RG-174	2	1	5.45	4.65	4.09
175143	RG-174	3	0.5	6.45	6.15	5.75
175152	RG-174	3	1	6.59	5.59	4.95
175178	RG-174	4	1	5.29	4.49	3.95

## BNC Male Coax Cables

### RG6 75Ω Cables

Part No.	Description	1	10	50
176794	3' BNC to BNC	\$5.95	\$5.39	\$4.79
176815	6' BNC to BNC	6.95	6.25	5.59

### RG59/U 75Ω CATV & Video Patch Cords

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
86472	CRG59-1	1.5	\$3.95	\$3.49	\$3.25
85543	CRG59-6	6	5.95	5.89	4.39
102373	CRG59-12	12	6.59	5.95	5.39
262730	EBC-525	25	7.95	6.95	6.49
262748	EBC-550	50	9.95	8.95	7.95
262764	EBC-510	100	29.95	26.95	21.99

### RG174/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
111473	RG174U3	3	\$5.45	\$4.95	\$4.45
111482	RG174U6	6	7.59	6.89	6.19

## BNC Male Coax Cables

## JAMECO EXCLUSIVE

\* Web Code: BBD



### RG58/U 50Ω Network & Oscilloscope Cables

Part No.	Cross Ref. No.	Length (ft.)	1	10	50
181308	CRG58-1RR	1	\$4.29	\$3.95	\$3.69
102315	CRG58-1	1.5	4.39	3.95	3.59
256743	CBB-224-24	2	5.25	4.65	4.19
11404	CRG58-3	3	4.75	4.35	3.89
102331	CRG58-6	6	4.39	3.95	3.59
180822	CRG58-10	10	5.85	5.19	4.15
102350	CRG58-12	12	4.95	4.45	3.95
169818	CRG58-15	15	9.89	8.89	6.59
102357	CRG58-25	25	7.79	6.95	6.25
102365	CRG58-50	50	13.29	11.19	10.15
102381	CRG58-100	100	16.19	14.55	11.65

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## Fiber Optics

## AVAGO TECHNOLOGIES



### Fiber Optic Transceivers

Part No.	Product No.	Description	1	10
1553336	HFBR-53A5VEM	850nm, SC duplex 3.3V, E shield	\$109.95	\$99.95
1553352	HFBR-5710LP	For gigabit ethernet	139.95	129.95
1584722	HFBR-5701LP	For gigabit ethernet & fiber channel	139.95	129.95

### Miniature Link Package Transmitters

Part No.	Product No.	Description	1	10
1584562	HFBR-1404Z	SMA, Tx high power	\$17.95	\$15.95
1552616	HFBR-1412	ST, Tx standard power	19.95	17.95
1552624	HFBR-1412T	ST, Tx std power, threaded port	19.95	17.95
1552632	HFBR-1412TM	ST, Tx std power, threaded/metal port	19.95	17.95
1584571	HFBR-1412TZ	ST, Tx std power, threaded port	19.95	17.95
1552641	HFBR-1414	ST, Tx high power	16.95	13.95
1584597	HFBR-1414TZ	ST, Tx high power, threaded port	19.95	17.95

### Miniature Link Package Receivers

Part No.	Product No.	Description	1	10
1584642	HFBR-2402Z	SMA, Rx, SMBd, TTL output	\$14.95	\$12.95
1552894	HFBR-2412	ST, Rx, 5MBd, TTL output	17.95	14.95

### Discrete Optical Components

Part No.	Product No.	Description	1	10
1552587	HFBR-1312T	32/160 MBd, 5000m, ST	\$49.95	\$44.95
1552595	HFBR-1312TZ	32/160 MBd, 5000m, ST	59.95	54.95
1552851	HFBR-2316T	32/160 MBd, 5000/2000m, ST	59.95	53.95
1552860	HFBR-2316TZ	32/160 MBd, 5000/2000m, ST	59.95	53.95

### Versatile Link Package Transmitters

Part No.	Product No.	Description	1	10
1552712	HFBR-1521	5MBd, 20 POF, -40°C to 85°C	\$10.95	\$9.95
1552739	HFBR-1523	40kBd, 110 POF, -40°C to 85°C	10.95	9.95
1552763	HFBR-1527	32/125MBd, 40/30 POF, 1000/100 HCS, 0°C to 70°C	10.95	9.95
1552771	HFBR-1528	10MBd, 100 POF, 900 HCS, 40°C to 85°C	11.95	8.95
1552798	HFBR-1532	1MBd, 45 POF, 0°C to 70°C	10.95	9.95

### Versatile Link Package Receiver

Part No.	Product No.	Description	1	10
1553109	HFBR-2532	1MBd, 45 POF, 0°C to 70°C	\$10.95	\$8.95

### 2 & 3 Channel Enclosed Encoders

Part No.	Product No.	Description	1	10
1584503	HEDS-5500SA11	2-ch, 500CPR, 4mm shaft dia.	\$59.95	\$53.95
1552309	HEDS-5645-113	3-ch, 512CPR, 8mm shaft dia.	49.95	44.95
1584538	HEDS-9100SH00	2-ch, incremental encoder, 400CPR	24.95	22.95

## INDUSTRIAL FIBER OPTICS 10' Fiber Optic Cable

\* Web Code: QAA

- 1000µm core jacketed plastic fiber optic cable (10')

Part No.	Mfr. Part No.	1	10
171272	IF-C-E1000	\$5.95	\$5.35

## INDUSTRIAL FIBER OPTICS Fiber Optic Kit

Part No.	Product No.	Description	1	10
169914	IF-LMH	Fiber optic lab kit (intermediate)	\$59.95	\$49.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

# Patch Cables & Terminal Blocks

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## "F" Connector Patch Cables

### RG-6 75Ω

- For use with cable TV and video



Part No.	Cross Ref. No.	Length (ft.)	1	10
287101	205-415BK	6	\$1.95	\$1.75
297668	205-440BK-GW1B	75	4.95	4.49

## KULKA® Double Row Terminal Block

- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated
- .437" (11 mm) centers
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design • Size: 1.12"W x 0.5"H



Part No.	Product No.	Pos.	Length	1	10
188672	601GP8	8	4.25"	\$3.95	\$3.49

## molex® BEAU Terminal Blocks

- 0.375" double row
- Wire AWG range: 12-24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate



Part No.	Product No.	Beau No.	Pos.	1	10	100
659391	38770-0102	77002	2	\$1.69	\$1.49	\$1.35
659411	38770-0104	77004	4	1.95	1.75	1.35
659438	38770-0106	77006	6	2.29	2.19	2.05
659454	38770-0108	77008	8	2.49	2.25	1.95
659489	38770-0112	77012	12	3.95	3.49	2.95

## Jameco ValuePro European Terminal Blocks

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed



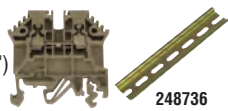
215011

\* Web Code: CBJ

Part No.	Product No.	Amps	AWG	1	10	100
215011	PA8HDS	20A	12-22	\$1.49	\$1.35	\$1.19
215029	PA10HDS	30A	10-22	1.95	1.75	1.55
215037	PA12HDS	35A	10-22	2.95	2.59	2.25

## OST DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 14-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



Part No.	Product No.	Type	1	10	100
237083	41296.2	SR2.5	\$ .89	\$ .79	\$ .69
248736	2094.0	TS35 x 7.5	6.95	6.25	5.49

**The Best Warranty in the Industry**

All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.

## Terminal Blocks

- For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)
- 164814: Male header (.197") for use with 164794 and 164806



Fig. 1 (2094506)



Fig. 2 (2094522)



Fig. 3 (2094565)



Fig. 4 (2094602)



Fig. 5 (2094629)



Fig. 6 (2094645)



Fig. 7 (2094670)



Fig. 8 (2094485)



Fig. 9 (2094549)



Fig. 10 (160785)



Fig. 11 (164806)



Fig. 12 (99398)



Fig. 13 (189676)



Fig. 14 (161067)



Fig. 15



Fig. 16 (2094696)



Fig. 17 (2094709)



Fig. 18 (2094581)



Fig. 19 (152347)



Fig. 20 (249084)



Fig. 21 (276672)



Fig. 22 (164814) use w/ Fig. 11

Part No.	Mfr.	Product No.	Fig.	Term.	Terminal Spacing	Description	1	10	100
2094506	OST	OSTTE020161	1	2	0.138"/3.5mm	Top screw	\$.29	\$.25	\$.19
2094522	OST	OSTTF020161	2	2	0.138"/3.5mm	Side screw	.35	.29	.25
2094514	OST	OSTTE030161	1	3	0.138"/3.5mm	Top screw	.39	.35	.29
2094531	OST	OSTTF030161	2	3	0.138"/3.5mm	Side screw	.49	.45	.39
2094565	OST	OSTTJ0231530	3	2	0.150"/3.81mm	R/A screw	.65	.59	.55
2094602	OST	OSTTS02315A	4	2	0.150"/3.81mm	Top screw	.65	.59	.55
2094629	OST	OSTTS02315B	5	2	0.150"/3.81mm	Top screw	.65	.59	.55
2094645	OST	OSTTO023250	6	2	0.150"/3.81mm	Vertical header	.25	.19	.15
2094661	OST	OSTTO023251	7	2	0.150"/3.81mm	R/A header	.25	.19	.15
2094573	OST	OSTTJ0331530	3	3	0.150"/3.81mm	R/A screw	.95	.85	.75
2094611	OST	OSTTS03315A	4	3	0.150"/3.81mm	Top screw	.95	.85	.75
2094637	OST	OSTTS03315B	5	3	0.150"/3.81mm	Top screw	.95	.85	.75
2094653	OST	OSTTO033250	6	3	0.150"/3.81mm	Vertical header	.35	.29	.25
2094670	OST	OSTTO033251	7	3	0.150"/3.81mm	R/A header	.35	.29	.25
2094485	OST	OSTTA020161	8	2	0.197"/5mm	Top screw	.29	.25	.19
2094549	OST	OSTTG0201600	9	2	0.197"/5mm	45 angle screw	.39	.35	.29
160785	Dinkle	EK500V-02P	10	2	0.197"/5mm	Top screw	.65	.55	.45
164794	OST	EDC130/2DS	11	2	0.197"/5mm	Top screw	.65	.59	.49
99427	Dinkle	DT128/2	12	2	0.197"/5mm	Top screw	.79	.59	.49
189676	OST	EDC500/2DS	13	2	0.197"/5mm	Top screw	.79	.69	.65
161067	Dinkle	EK500A-02P	14	2	0.197"/5mm	45 angle screw	.85	.75	.55
2094493	OST	OSTTA030161	8	3	0.197"/5mm	Top screw	.39	.35	.29
2094557	OST	OSTTG0301600	9	3	0.197"/5mm	45 angle screw	.59	.55	.49
2081203	Dinkle	ED500V-3P	15	3	0.197"/5mm	Top screw	.69	.59	.45
189668	OST	EDC500/3DS	13	3	0.197"/5mm	Top screw	.89	.79	.69
99398	Dinkle	DT128V3P	12	3	0.197"/5mm	Top screw	.95	.89	.79
160793	Dinkle	EK500V-03P	10	3	0.197"/5mm	Top screw	.95	.89	.79
164806	OST	EDC130/3DS	11	3	0.197"/5mm	Top screw	1.09	.95	.85
161059	Dinkle	EK500A-03P	14	3	0.197"/5mm	45 angle screw	1.15	.95	.85
2094688	OST	OSTQ025450	16	2	0.200"/5.08mm	Vertical header	.25	.19	.15
2094709	OST	OSTQ025451	17	2	0.200"/5.08mm	Vertical header	.25	.19	.15
2094581	OST	OSTTJ025153	18	2	0.200"/5.08mm	Top screw	.65	.59	.55
152347	OST	EDC120/2DS	19	2	0.200"/5.08mm	Top screw	.65	.55	.45
2094696	OST	OSTQ035450	16	3	0.200"/5.08mm	Vertical header	.29	.25	.19
2094717	OST	OSTQ035451	17	3	0.200"/5.08mm	Vertical header	.29	.25	.19
152355	OST	EDC120/3DS	19	3	0.200"/5.08mm	Top screw	.49	.45	.39
2094590	OST	EDTJ035153	18	3	0.200"/5.08mm	Top screw	.89	.79	.69
249084	OST	EDZ750/3	20	3	0.200"/5.08mm	Top screw	2.29	2.05	1.85
276672	Buchanan	6PCV-05-006	21	6	0.375"/9.53mm	Top screw	2.05	1.79	1.65
2094477	OST	OSTOP240200	22	24	0.197"/5mm	1.3 x 1.0mm	.95	.85	.75
164814	OST	EDSTL130/24	22	24	0.197"/5mm	1.3 x 1.3mm	2.65	2.35	2.15
164815	OST	OSTOP240000	22	24	0.197"/5mm	1.3 x 1.3mm	2.19	1.97	1.58

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## CINCH Double Row Barrier Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel w/ nickel over copper flash plating
- Solder terminal material: brass w/ electro-tin plating

\*Web Code: YBM



231378

- 140 Series 15A** • 3750-watts/terminal max.  
• 16 AWG wire max. • Size: 0.88"W x 0.41"H  
• Screw: 5-40 x 3/16" • Density: 0.375"

Part No.	Mfr. P/N	Pos.	Length	1	10	100
230973	2-140R	2	1.41"	\$1.15	\$0.85	\$0.75
230981	3-140R	3	1.78"	1.49	1.35	1.19
230990	4-140R	4	2.16"	1.85	1.39	1.19
231001	5-140R	5	2.53"	1.79	1.59	1.39
231010	6-140R	6	2.91"	2.29	1.75	1.49
231028	7-140R	7	3.28"	2.45	1.89	1.59
231036	8-140R	8	3.66"	2.89	2.29	2.05
231052	10-140R	10	4.41"	3.55	2.69	2.35
231061	12-140R	12	5.16"	4.19	3.29	2.95
1775983	14-140	14	5.91"	4.59	3.39	3.05

- 141 Series 20A** • 5000-watts/terminal max.  
• 14 AWG wire max. • Size: 1.13"W x 0.5"H  
• Screw: 6-32 x 1/4" • Density: 0.438"

Part No.	Mfr. P/N	Pos.	Length	1	10	100
231378	4-141R	4	2.50"	\$1.89	\$1.49	\$1.35
231394	6-141R	6	3.38"	2.35	1.85	1.59
231415	8-141R	8	4.25"	2.95	2.39	2.05
231431	10-141R	10	5.13"	3.39	2.75	2.35
231440	12-141R	12	6.00"	3.95	3.55	2.95

- 142 Series 30A** • 7500-watts/terminal max.  
• 10 AWG wire max. • Size: 1.312"W x 0.625"H  
• Screw: 8-32 x 5/16" • Density: 0.563"

Part No.	Mfr. P/N	Pos.	Length	1	10	100
440891	8-142	8	5.47"	\$4.95	\$4.45	\$3.95

### Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.

- 2-position • Brass w/ nickel plating



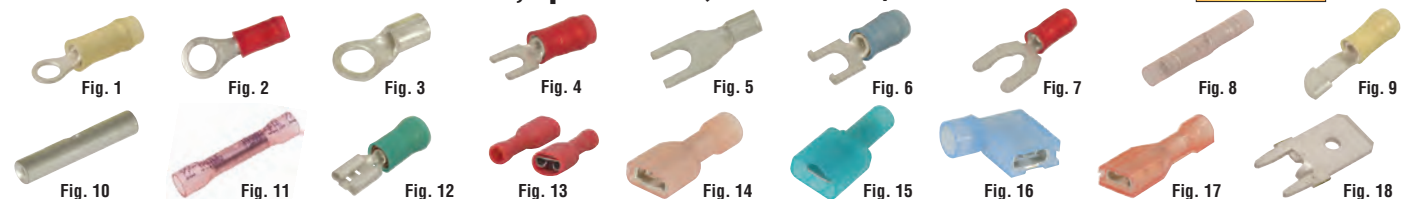
659382

Part No.	Mfr. P/N	1	10	100
659382	140J-1 (140 series)R	\$0.25	\$0.19	\$0.15
448500	141J (141 series)	.35	.29	.25

## AMP molex

## Terminals, Splices and Quick Connect/Disconnect

\*Web Code: TSQ



### Ring Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302594	AMP	323912R	1	Nylon	#2	26-22	Yellow	\$0.25	\$0.19	\$0.15
302658	AMP	31880R	1	Nylon	#4	22-16	Red	.25	.19	.15
302666	AMP	36152R	2	Plastic	#6	22-16	Red	.25	.19	.15
103684	Various	2048R	2	Plastic	#6	22-16	Red	.25	.12	.09
302674	AMP	31890R	2	Plastic	#8	22-16	Red	.25	.19	.15
844220	AMP	34104R	3	Uninsul.	#4	22-16	—	.25	.15	.12
844289	AMP	34107R	3	Uninsul.	#6	22-16	—	.25	.15	.12
844318	AMP	34108R	3	Uninsul.	#8	22-16	—	.25	.15	.12
844377	AMP	34111R	3	Uninsul.	#8	22-16	—	.25	.15	.12
844406	AMP	34112R	3	Uninsul.	#10	22-16	—	.25	.15	.12
302720	AMP	320619R	1	Nylon	#6	16-14	Blue	.25	.15	.12
302746	AMP	36160R	1	Nylon	#10	16-14	Blue	.25	.15	.12

### Ring Tongue Terminals (Continued)

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302754	AMP	321045R	1	Nylon	1/4	16-14	Blue	\$0.25	\$0.19	\$0.17
302797	AMP	35108R	1	Nylon	#8	12-10	Yellow	.25	.19	.17
302800	AMP	35109R	1	Nylon	#10	12-10	Yellow	.25	.19	.17
847560	AMP	36158R	1	Nylon	#6	16-14	Blue	.25	.19	.17
302738	AMP	320565R	2	Nylon	#8	16-14	Blue	.25	.19	.17

### Spade Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302851	AMP	328394R	4	Nylon	#2	22-16	Red	\$0.25	\$0.19	\$0.17
302869	AMP	327717R	4	Nylon	#4	22-16	Red	.25	.19	.17
302877	AMP	34541R	4	Nylon	#6	22-16	Red	.25	.19	.17
103588	Various	SVS1-3.7R	4	Vinyl	#6	22-16	Red	.25	.12	.09

Continued on next page

## 3M Spring Connectors



285683

285691

285704

- 285683:** 2#22 to 2#12AWG, orange with blue skirt  
**285691:** 2#18 to 2#8 to 5#12 AWG, red w/ yellow skirt  
**285704:** 4#14 to 2#6 to 3#8 AWG, blue w/ gray skirt

Part No.	Product No.	1	10	100
285683	3M O/B+	\$0.25	\$0.19	\$0.15
285691	3M R/Y+	.25	.19	.15
285704	3M B/G+	.45	.39	.35

## EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise



169755

169747

169755: Y-type

Part No.	Color	AWG	Conductors	1	10	100
169747	YellowR	22-26	2	\$0.25	\$0.19	\$0.15
169755	RedR	19-26	3Y	.29	.25	.19

## Wire Connectors



182450

182511

140717

- Material: UL approved nylon 66, 94V2
- Strip wire before application • Twist on type

**182450:** Nylon 66, 94-2 UL/CSA approved

**140717:** PE - metal inside

Part No.	Description	Order in multiples of 10	10	100	1000
182450	Crimp 16-14 AWGR	\$0.19	\$0.15	\$0.12	
182511	Wire nut 16 AWG	.09	.06	.04	
140717	Wire IDC 22-18 AWGR	.09	.08	.07	

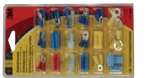
\* Requires crimping tool (P/N 72996, pg 90)

\*Wire Caps Available Online — Enter Web Code QBZ

## 3M Electrical Connector Kit

- 79 pieces

Part No.	1	10	25
651954R	\$14.95	\$13.49	\$11.95

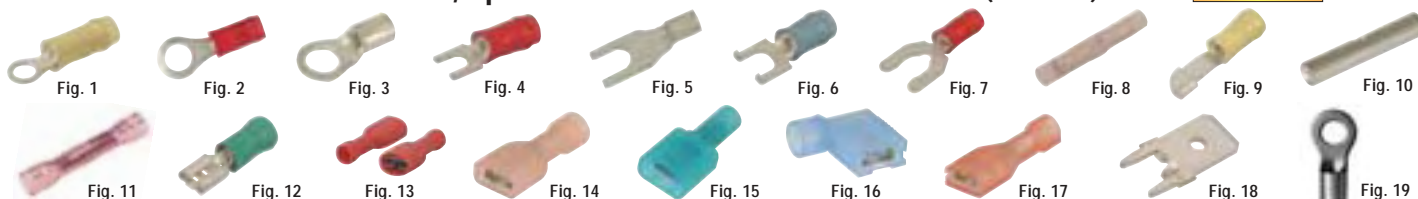






## Terminals, Splices and Quick Connect/Disconnect (Continued)

\* Web Code: TSQ



### Spade Tongue Terminals (Continued)

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302885	AMP	32053	4	Nylon	#8	22-16	Red ..	\$.35	\$.29	\$.25
842929	AMP	323127	5	Uninsul.	#6	22-16	— .....	.25	.19	.17
502879	Molex	19144-0001	—	PVC	#5-6	18-22	Red ....	.25	.19	.17
302906	AMP	35559	4	Nylon	#6	16-14	Blue ....	.25	.19	.17
302914	AMP	32059	4	Nylon	#8	16-14	Blue ....	.25	.19	.17
103596	Various	SVM-2	4	Vinyl	#8	16-14	Blue ....	.25	.15	.09
302949	AMP	326859	4	Nylon	#6	12-10	Yellow .45	.39	.35	
302957	AMP	32588	4	Nylon	#8	12-10	Yellow .29	.25	.19	
511265	AMP	19144-0043	4	PVC	#10	12-10	Yellow .25	.19	.17	
502801	AMP	19141-0085	4	Uninsul.	#10	12-10	— .....	.25	.15	.12

### Flanged Spade Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
302973	AMP	324608	6	PVC	#2	22-16	Red ..	\$.35	\$.29	\$.25
303010	AMP	320862	6	Nylon	#8	16-14	Blue ....	.25	.19	.17

### Short Spring Spade Tongue Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Stud Size	AWG	Color	1	10	100
303087	AMP	52930	7	Nylon	#8	22-16	Red ..	\$.25	\$.19	\$.17
303132	AMP	52941	7	Nylon	#6	12-10	Yellow .25	.19	.17	
303141	AMP	52942	7	Nylon	#8	12-10	Yellow .35	.29	.25	
303159	AMP	52943	7	Nylon	#10	12-10	Yellow .35	.29	.25	

### Butt & Knife Disconnect Splices

Part No.	Mfr.	Product No.	Fig.	Insul.	Type	AWG	Color	1	10	100
303167	AMP	323994	8	Nylon	Butt	24-20	Natural .49	\$.45	\$.39	
303175	AMP	320559	8	Nylon	Butt	22-16	Red ....	.55	.49	.45
494469	Molex	19215-0009	10	Uninsul.	Butt	22-18	— .....	.25	.15	.12
491305	Molex	19164-0013	11	NiAC	Butt	22-18	Red ....	.45	.39	.35
503062	Molex	19154-0004	—	PVC	Butt	18-22	Red ....	.25	.15	.12
303183	AMP	320562	8	Nylon	Butt	16-14	Blue ....	.55	.49	.45
511530	Molex	19154-0030	8	PVC	Butt	12-10	Natural .25	.19	.17	
303221	AMP	35762	9	Nylon	Knife	12-10	Yellow 1.19	1.05	.95	

### Spade Solderless Terminal Noninsulated

Part No.	Mfr.	Product No.	Fig.	AWG	Material	Width (in.)	10	100	1000
502705	Molex	19141-0022	19	18-22	Copper	0.326 .....	\$ .15	\$ .12	\$ .09

Order in multiples of 10

### Quick Connect/Disconnect Female Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10	100
303280	AMP	640903-1	12	Nylon	.250 x .032	22-18	Red ..	\$.25	\$.19	\$.15
489627	Molex	19003-0001	14	Nylon	.250 x .032	22-18	Red ....	.25	.15	.12
489475	Molex	19002-0001	14	Nylon	.250 x .032	22-18	Red ....	.35	.29	.25
489758	Molex	19005-0001	14	Nylon	.250 x .032	22-18	Red ....	.29	.19	.15
489774	Molex	19005-0010	14	Nylon	.250 x .032	10-12	Yellow .35	.29	.25	
303255	AMP	640917-1	12	Nylon	.187 x .020	22-18	Red ....	.25	.19	.15
489643	Molex	19003-0017	14	Nylon	.187 x .032	22-18	Red ....	.25	.19	.15
461042	Molex	19019-0009	14	Nylon	.187 x .032	22-18	Red ....	.29	.25	.19
489635	Molex	19003-0011	14	Nylon	.187 x .020	22-18	Red ....	.29	.19	.15
524197	AMP	2-520182-2	17	Nylon	.187 x .020	22-18	Red ....	.25	.19	.15
303247	AMP	640923-1	12	Nylon	.110 x .020	22-18	Red ....	.25	.19	.15
109112	Various	GFF1250	13	Vinyl	.250 x .032	22-16	Red ....	.25	.19	.15
103668	Various	FDV1-250	12	Vinyl	.250 x .032	22-16	Red ....	.25	.15	.12
106922	Various	FDV1-187	12	Vinyl	.187 x .032	22-16	Red ....	.25	.12	.09
303327	AMP	640905-1	12	Nylon	.250 x .032	16-14	Blue ....	.25	.19	.15
489766	Molex	19005-0005	14	Nylon	.250 x .032	16-14	Blue ....	.25	.19	.15
303319	AMP	640915-1	12	Nylon	.250 x .032	16-14	Blue ....	.25	.19	.15
489678	Molex	19003-0040	14	Nylon	.250 x .032	16-14	Blue ....	.25	.15	.12
489871	Molex	19007-0021	16	Nylon	.250 x .032	16-14	Blue ....	.35	.29	.25
303301	AMP	640919-1	12	Nylon	.187 x .020	16-14	Blue ....	.25	.19	.15
489694	Molex	19003-0050	14	Nylon	.187 x .020	16-14	Blue ....	.29	.19	.15
303298	AMP	640929-1	12	Nylon	.110 x .020	16-14	Blue ....	.29	.25	.19
303343	AMP	640907-1	12	Nylon	.250 x .032	12-10	Yellow .35	.29	.25	

### Quick Connect/Disconnect Male Terminals

Part No.	Mfr.	Product No.	Fig.	Insul.	Size (ins.)	AWG	Color	1	10	100
489723	Molex	19004-0001	15	Nylon	.250 x .032	22-18	Red ..	\$.29	\$.25	\$.19
489432	Molex	19001-0003	15	Nylon	.187 x .020	22-18	Red ....	.35	.29	.25
489731	Molex	19004-0005	15	Nylon	.250 x .032	16-14	Blue ....	.29	.25	.19

### Male Quick Connect PCB

Part No.	Mfr.	Product No.	Fig.	Material	Size (ins.)	10	100	1000
853927	AMP	63824-1	18	Tin/Copper	250 x .032	\$ .09	\$ .08	\$ .07

## Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow



Part No.	Mfr. Part No.	Size	1	10	25
72996	HT303A	9.0"L x 2.0"W .....	\$22.49	\$18.95	\$14.49

# Switches

## Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST
- 171872: 500mA @ 100VDC
- 1951342: 1A @ 220VDC



\* Web Code: UBB

Part No.	Product No.	Size (L" x D")	1	10	100	
171872	MKA14103	0.53 x 0.1	.....	\$.85	\$.65	\$.49
1951342	MKC-27103	2.24 x 0.1	.....	1.49	1.35	1.19

## Switch Grab Bags

- Assorted – toggle, pushbutton, rocker and slide switches



Part No.	Product No.	No. of Pcs.	Wt. (lbs.)	1	10
18235	GB165	50	0.4 ...	\$8.95	\$7.95
135378	GB165LB	150	1.0 ...	19.95	17.95

## Switch Assortment Kit

- 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 169 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523, 21936, 21910, 26332, 26315, 21979, 21952, 26367, 26358), pg 94
- 10 ea. slide switches (109171), pg 91
- 10 ea. pushbutton switches (26623, 26649), pg 92
- 10 ea. DIP switches (38818, pg 95; 38843, pg 95)
- 10 ea. tactile switches (153252), pg 96

SAVE \$46



Part No.	Description	Wt. (lbs.)	1	5
85059	150 pcs. switch kit	5.0	\$119.95	\$109.95

## Temperature Switch

- SPST-NC (Normally-Closed)
- Operational life: 100,000 cycles
- Contact resis.: 50MΩ or less
- Temp: 75°C (167°F)
- Contact current: 5A
- Contact voltage: 120V
- PCB mount
- 1.64"L leads
- UL/CSA approved



Part No.	Product No.	1	10	100
159636	7AM-202 .....	\$ .29	\$ .25	\$ .19

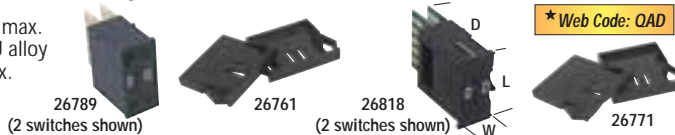
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# Binary, Miniature, Subminiature & Slide Switches

JAMECO ValuePro

## Binary Coded Decimal (BCD) Switches

- Contact resistance: 100mΩ max.
- Contacts: gold plated BE-CU alloy
- Continuous load: 1 amp max.
- Front snap-tab mounting with end plates



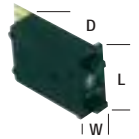
★ Web Code: QAD

Part No.	Product No.	Manufacturer	Description	Dimensions (L" x W" x D")	Character Height	Pricing		
						1	10	100
26789	GPF311221	ValuePro	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$4.49	\$4.45	\$3.95
26761	PF31E10	ValuePro	End plates for 26789	1.2 x 0.2 x 1.1	—	.95	.85	.75
26818	GTF311211	ValuePro	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.75	4.19	3.75
26771	TF31E10	ValuePro	End plate for 26818 (2)	1.2 x 0.2 x 1.3	—	.95	.85	.75

JAMECO ValuePro

## Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"

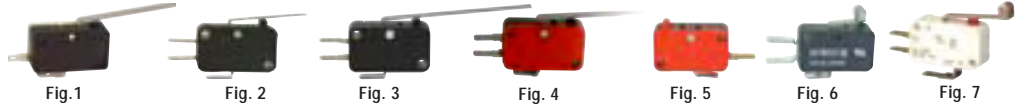


Part No.	Cross Ref.	Description	1	10	100
136558	MX061	10-position ...	\$2.95	\$2.65	\$2.39

**OMRON Honeywell**  
• 3 terminals: common; normally open; normally closed  
• Size: 1.10"L x 0.40"W x 0.63"H

## Miniature Basic Switches

★ Web Code: UEM



Part No.	Manufacturer	Mfr. Part No.	Actuator Type	Fig.	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
1945268	Zippy	VM-5	Long lever (2.00"L)	1	SPST	5A @ 125/250VAC	10M/1M	0.187" quick connect	\$1.19	\$0.95	\$0.75
187792	Omron	V-10G2-1C24K	Hinge lever (1.08"L)	2	SPDT-NC	0.1A @ 125VAC, 10A @ 250VAC	50M/300k	0.183" quick connect	2.49	2.25	1.95
187805	Omron	V-10G3-1C24K	Long hinge lever (2.01"L)	3	SPDT-NC	0.1A @ 125VAC, 10A @ 250VAC	50M/300k	0.183" quick connect	2.15	1.95	1.75
2076279	Honeywell	V3L-1465-D8	Lever actuator	4	SPDT	4A @ 125VAC	50M/300k	0.183" quick connect	1.59	1.35	1.09
2076244	Honeywell	V3-23-D8	Pin plunger	5	SPDT	5A @ 125VAC	50M/300k	0.183" quick connect	1.49	1.25	.95
617844	GC Electronics	35-880	Lever actuator	5	SPDT	10A @ 125VAC	10M/100k	0.187" quick connect	4.95	4.45	3.95
159572	Highly Electric	VS10N051C	Hinge roller (0.60"L)	6	SPDT-NC	10A @ 125VAC, 10A @ 250VAC	10M/100k	0.250" quick connect	2.95	2.65	2.39
159581	Highly Electric	VS10N021C2	Hinge lever (1.05"L)	2	SPDT-NC	10A @ 125VAC, 10A @ 250VAC	10M/100k	0.183" quick connect	2.49	2.25	1.95
483284	Cherry	D44CR1RD	Hinge lever (1.24"L)	7	SPDT	10A @ 125/250VAC	6k	0.187" quick connect	2.95	2.65	2.39
1917267	Honeywell	V7-2B17D8-201	Roller lever	6	SPDT	11A @ 125/250/277VAC	50M/300k	0.187" quick connect	3.49	3.15	2.85
1917099	Honeywell	V7-1C17D8	Pin plunger	5	SPDT	15.1A @ 125/250/277VAC	50M/300k	0.183" quick connect	2.95	2.65	2.39

## Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

★ Web Code: MBE



Part No.	Manufacturer	Product No.	Fig.	Actuator Type	Contact Form	Contact Rating	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
187709	Omron	SS-5GL	1	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	\$1.59	\$1.39	\$1.25
187733	Omron	SS-5GL2	2	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.49	1.35	1.19
188867	Omron	D2F-LR	3	Hinge lever	SPDT-NC	3A @ 125VAC, 2A @ 30VDC	1M/30k	Solder	1.19	1.05	.95
159599	Highly Electric	SS0505A	2	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	30M/200k	Solder	1.39	1.25	1.09

## Slide Switches

- Two mounting flanges
- Top actuation
- 6/6 nylon plastic housing
- Nylon actual
- Phenolic insulated



★ Web Code: LAP

Part No.	Manufacturer	Product No.	Fig.	Pins	Type	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating (A @ VAC)	Housing Material	Lead Length	Actuator Height	Pricing		
							A"	B"					1	10	100
109171	ValuePro	G4050X-R	1	3	SPDT on-on	.22"L x .45"W x .23"D	—	.12	0.5A @ 50VDC	Plastic	.17"	.15"	\$0.35	\$0.29	\$0.25
204142	C&K	4102021MLOY	2	3	SPDT on-on	.77"L x .40"W x .37"D	—	.19	2.0A @ 28VDC	Plastic	.19"	.17"	.29	.19	.15
202770	+	74650-009	3	6	SPDT on-on	.35"L x .70"W x .30"D	.17	.20	0.1A @ 30VDC	Plastic	.16"	.32"	.29	.19	.15
2076210	CWI	GF126-1093	4	6	DPDT on-on	1.0"L x .41"W x .30"D	.19	.29	0.5A @ 125VDC	Metal	.25"	.20"	.69	.59	.45
161817	ValuePro	MS-306-R	4	6	SPDT on-on	.35"L x .14"W x .14"D	.10	.10	0.3A @ 6VDC	Plastic	.14"	.08"	.59	.49	.45
621325	GC Electronics	35-202-BU	4	3	SPDT on-on	.44"L x .22"W x .18"D	.14	—	0.3A @ 30VAC	Metal	.14"	.16"	1.79	1.59	1.39
549010	AlcoSwitch	1-1437575-4	1	3	SPDT on-on	.35"L x .13"W x .13"D	.10	.10	0.1A @ 30VAC	Plastic	.12"	.08"	2.95	2.65	2.39
588220	C&K	OS102011MA10N1	5	3	SPDT on-on	.34"L x .17"W x .15"D	—	.08	0.2A @ 30VDC	Metal	.11"	.16"	.39	.35	.29

**Switchcraft**

## Cord-Switch®

★ Web Code: CSH

**GC**

## Inline Cord Switch

- Maximum cable diameter: .375"
- Plastic insulation
- Copper alloy plated housing and switch bushing

- Contact form: SPST on-off
- Terminal: solder
- Contact rating: 6A @ 20VDC

- Black plastic body







Part No.	Mfr. Part No.	Type (momentary)	Button Color	1	10	50	Part No.	Mfr. Part No.	1	10	100
297502	ED903	SPDT off(on)	Red	\$12.95	\$11.65	\$10.49	621270	35-1851-BU	\$3.95	\$3.49	\$2.95

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## Pushbutton Switches

**NEW**  
MARKED IN PINK

\* Web Code: UBU



Part No.	Manufacturer	Product No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Button Color	Pricing		
								A"	B"				1	10	100
315432	ValuePro	R13-23A-R	1	2	.480"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	\$ .95	\$ .85	\$ .75
315442	ValuePro	R13-23A-B	1	2*	.480"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	.95	.85	.75
315492	ValuePro	R13-23B-B	1	2	.480"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	.95	.85	.75
315484	ValuePro	R13-23B-R	1	2	.480"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	.95	.85	.75
315521	ValuePro	R13-23B-Y	1	1	.480"	SPST off-on	1.38 (D) x 1.53 (E)	.18	—	3A @ 125VAC	Solder	Yellow	.95	.85	.69
315504	ValuePro	R13-23B-BL	1	1	.480"	SPST off-on	1.38 (D) x 1.53 (E)	.18	—	3A @ 125VAC	Solder	Blue	.95	.85	.69
315651	ValuePro	R13-502A-05-BB	1	2	.500"	SPST off-(on)	.82 (D) x 1.02 (E)	.23	—	3A @ 125VAC	Solder	Black	1.75	1.49	1.25
315678	ValuePro	R13-502A-05-BG	2	2	.500"	SPST off-(on)	.82 (D) x 1.02 (E)	.20	—	3A @ 125VAC	Solder	Green	1.75	1.49	1.25
315660	ValuePro	R13-502A-05-BR	3	2	.500"	SPST off-(on)	.82 (D) x 1.02 (E)	.22	—	3A @ 125VAC	Solder	Red	1.75	1.49	1.25
315791	ValuePro	R13-508A-05-BB	4	2	.630"	SPST off-(on)	.94 (D) x 1.16 (E)	.24	—	3A @ 125VAC	Solder	Black	2.49	2.25	1.95
315820	ValuePro	R13-508AL-05-BRR	4	4	.630"	SPST off-(on)	.93 (D) x 1.14 (E)	.21	.25	3A @ 125VAC	Solder w/ LED	Red	2.75	2.49	2.25
315897	ValuePro	R13-511A-05-BB	5	2	.500"	SPST off-(on)	.93 (D) x 1.14 (E)	.23	—	3A @ 125VAC	Solder	Black	1.95	1.75	1.49
315900	ValuePro	R13-511A-05-BR	5	2	.500"	SPST off-(on)	.93 (D) x 1.14 (E)	.24	—	3A @ 125VAC	Solder	Red	1.95	1.75	1.49
315599	ValuePro	R13-40A-R	6	2	.480"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.19	1.05	.95
26623	ValuePro	MS102	7	2	.250"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.59	.49	.45
26649	ValuePro	MS103	7	2	.250"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.59	.49	.45
315643	ValuePro	R13-81-R	8	2	.203"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	.95	.85	.75
164566	Mountain Switch	MS402R	8	2	.172"	SPST off-(on)	.73 (L) x .22 (D)	.08	—	.5A @ 125VAC	Solder	Red	1.95	1.75	1.59
202999	Various	BB16	9	3	.250"	SPDT on-on	.39 x .35 x .35	.18	.10	1A @ 28VAC	Solder right angle	White	.95	.85	.75
71643	ValuePro	SWB210	10	2	.219"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	1.95	1.75	1.55
200774	C&K Switch	TP12SH8AQE	9	3	.219"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	2.95	2.49	1.95
596799	C&K Switch	U811SHZGE	11	3	.250"	SPDT on-(on)	.50 x .27 x .41	.185	—	1A @ 120VAC	Solder	††	1.95	1.75	1.55
72645	AlcoSwitch	TPC11FGRA2	10	3	.203"	SPDT off-(on)	.32 x .26 x .37	.20	.20	1A @ 125VAC	PC right angle	Red	1.95	1.75	1.49
121305	ValuePro	GPB006-WH	11	3	.250"	SPDT on-(on)	.52 x .27 x .38	—	.185	1A @ 120VAC	Solder lugs	White	3.49	3.15	2.79
28063	ValuePro	PB126	11	3	.250"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.49	3.15	2.79
174414	ValuePro	R13-510A	12	2	.500"	SPST off-(on)	.67 (L) x .31 (D)	.167	.167	3A @ 125VAC	Solder lugs	Red	.95	.85	.75
154878	Eaton Corp.	PS11-123	13	3	.250"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder right angle	Red	1.49	1.35	1.19
154879	ValuePro	PS11-123	13	3	.250"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder right angle	Red	1.95	1.89	1.79
355451	ValuePro	J1881	25	2*	.375"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	White	.95	.85	.75
22200	Judco	J1881	14	2*	.375"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.29	1.15	1.05
22218	Judco	J1882	14	2*	.375"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.05	.89	.79
171758	Apem	IPR3SAD2	15	2	.500"	SPST off-(on)	.82 (L) x .46 (D)	.19	—	.2A @ 250VAC	Solder	Black	14.55	12.26	11.19
171766	Apem	IPC3SAD6	16	2	.500"	SPST off-(on)	.82 x .69 x .46	.19	—	.2A @ 250VAC	Solder	Red	14.49	12.95	11.65
171774	Apem	AV191003C900	17	2	.750"	SPST off-(on)	1.20 (L) x .87 (D)	.37	—	.2A @ 48VDC	Screw	Silver	13.95	12.95	11.95
164494	Mountain Switch	DS450R	18	2	.406"	SPST off-(on)	1.2 (L) x .59 (D)	.175	—	3A @ 125VAC	Solder	Red	2.95	2.65	2.39
164486	Mountain Switch	DS463R	18	2	.406"	SPST off-(on)	1.2 (L) x .59 (D)	.175	—	3A @ 125VAC	Solder	Red	2.95	2.65	2.39
164523	Mountain Switch	1DS466R	10	2	.406"	SPST off-(on)	1.2 (L) x .60 (Sq)	.16	—	3A @ 125VAC	Solder	Red	2.95	2.65	2.39
164582	Mountain Switch	DS016B	19	2	.469"	SPST off-(on)	.88 (L) x .46 (D)	.22	—	1A @ 125VAC	Solder	Black	2.05	1.95	1.89
164639	Mountain Switch	MS3120R	20	2	.295"	SPST off-(on)	1.1 (L) x .31 (D)	.175	—	.5A @ 125VAC	Solder	Red	1.75	1.59	1.45
106112	Mountain Switch	DS412R	21	2	.734"	SPST off-(on)	.63 (L) x .66 (D)	.275	—	3A @ 110VAC	Solder lugs	Red	1.49	1.35	1.19
164671	Mountain Switch	NS801M0	22	2	.492"	SPST off-(on)	1.1 (L) x .59 (D)	.213	—	1A @ 125VAC	Solder terminal	Black	3.95	3.55	3.19
172700	Arctic	MPS1SPSTBLWH	23	2	—	SPST (on/off)	.38 x .20 x .10	.10	—	.05A @ 24VDC	Solder terminal	White	.35	.29	.25
315380	ValuePro	PA102A1-B	24	2	.250"	SPDT on-(off)	1.2 (D) x 1.7 (E)	.185	—	6A @ 125VAC	Solder	Black	2.79	2.49	2.25
315580	ValuePro	R13-40B-B	6	2	.480"	SPST off-(on)	.98 (L) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.35	1.25	1.15
315601	ValuePro	R13-40A-B	6	2	.484"	SPST off-on	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	.79	.69	.59
1839705	Honeywell†	AML22CBC2AA	26	5	.750"	SPDT (on)-off	1.4 (L) x .745 (W)	.228	.177	3A @ 125VAC	Solder	††	29.95	26.95	23.95
447072	Apem	TP32Y0030050S	24	3	.250"	SPST on-on	0.7 (D) x 0.8 (E)	.11	—	.4A @ 20VAC	Solder	Black	.59	.55	.49
315388	ValuePro	PA101A1-R/BL	24	2	.250"	SPST on-off	1.2 (D) x 1.7 (E)	.185	—	6A @ 125VAC	Solder	Red	1.95	1.75	1.59

\* Lead wires † Alt = alternate action ‡ With red neon lamp (5V) § Subminiature †† Cap is not included

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



JAMECO ValuePro

## Rocker Switches



\*Web Code: VBU



### Standard Appliance Rocker Switches

Part No.	*Mfr.	Product No.	Pins	Type ( ) Momentary	Contact Rating (A @ VAC)	Rocker Color	Terminal Type	Mounting Type	Lead Space		Dimensions (L" x W" x D")	Pricing		
									A"	B"		1	10	100
316451	JVP	R13-243A-02	2	SPST on-off	8 @ 125	Black	.187" quick connect	Panel mount	0.35	—	.83 x .37 x .85	\$ .89	\$ .79	\$ .69
577221	CHY	RRA22H3BBNN	2	SPST on-off	10 @ 125	Black	.187" quick connect	Panel mount	0.35	—	.69 x .51 x .64	.95	.85	.75
316128	JVP	R13-73B-R-02	3	SPST on-off	10 @ 125	Red illum.	.187" quick connect	Panel mount	0.35	0.35	.83 x .59 x .87	1.49	1.35	1.19
316136	JVP	R13-73B-Y-02	3	SPST on-off	10 @ 125	Yellow illum.	.187" quick connect	Panel mount	0.35	0.35	.83 x .59 x .87	1.19	.95	.79
316014	JVP	R13-66A-B-02	2	SPST on-off	16 @ 125	Black	.187" quick connect	Panel mount	0.31	—	.83 x .59 x .63	.65	.55	.49
316022	JVP	R13-66A-R-02	2	SPST on-off	16 @ 125	Red	.187" quick connect	Panel mount	0.31	—	.83 x .59 x .63	.95	.85	.55
196154	JVP	R30NSA-B/B	2	SPST on-off	15 @ 125	Black	.250" quick connect	Panel mount	0.45	—	1.07 x .42 x .77	.79	.69	.59
316048	JVP	R13-66B-G-02	3	SPST on-off	16 @ 125	Green illum.	.187" quick connect	Panel mount	0.31	0.31	.83 x .59 x .47	1.15	.95	.79
316072	JVP	R13-66D-02	3	SPDT on-off-on	16 @ 125	Black	.187" quick connect	Panel mount	0.31	0.31	.83 x .59 x .47	1.05	.95	.85
316111	JVP	R13-73A2-B-02	4	DPST on-off	10 @ 125	Black	.187" quick connect	Panel mount	0.20	0.34	.83 x .59 x .68	1.79	1.65	1.45
316153	JVP	R13-73C-R-02	4	DPST on-off	10 @ 125	Black	.187" quick connect	Panel mount	0.20	0.34	.83 x .59 x .87	1.29	1.15	.95
1945276	PRO	BR-12A-55S	2	SPST on-off	10 @ 125	Lt. gray	5.5" wire leads	Panel mount	0.31	—	.83 x .59 x .59	.49	.39	.29
1945284	PRO	R13-66	2	SPST on-off	10 @ 125	Dk. gray	5.5" wire leads	Panel mount	0.31	—	.83 x .59 x .55	.39	.29	.25
617473	GCE	35-695	3	SPDT (on)-off-(on)	16 @ 125	Black	.250" quick connect	Panel mount	0.34	0.56	.93 x .43 x .62	3.95	3.55	3.19
1945241	ITW	163-099-029	3	SPDT	12 @ 250	Black	.250" quick connect	Panel mount	0.26	0.26	1.2 x .55 x .59	.39	.29	.19

### Lighted Mini Rocker Switch

617289	JVP	35-646	—	DPST on-off	10 @ 125	Lighted red	Solder eyelet	Panel mount	—	—	—	\$5.95	\$5.29	\$4.75
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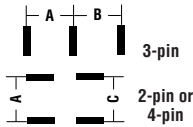
### Miniature Rocker Switch

617369	JVP	35-676	—	DPDT on-off-on	8 @ 125	Red	Solder lug	Panel mount	—	—	—	\$5.79	\$5.19	\$4.35
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JAMECO ValuePro

## Standard Toggle Switches

- Medium duty
- Mounting hole dia.: 1/2"



3-pin

2-pin or 4-pin

6-pin

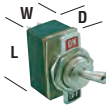


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

\*Web Code: NAJ

Part No.	*Mfr.	Product No.	Fig.	Pins	Type	Dimensions (L" x W" x D")	Lead Spacing			Contact Rating (A @ VAC)	Terminal Type	Lever Type	Pricing		
							A"	B"	C"				1	10	100
76241	JVP	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.79	\$1.59	\$1.35
76232	JVP	SWM125	1	2	SPST on-off	1.00 x .53 x .51	.23	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	2.25	1.95	1.85
317825	JVP	R13-25A2-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.49	2.25	1.95
318002	JVP	R13-28A-01	3	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.65	2.39	2.15
318027	JVP	R13-28A-06	3	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 screw	Round	1.79	1.59	1.45
317892	JVP	R13-25C1-05	7	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	1.75	1.49	1.25
317913	JVP	R13-25C2-05	7	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	1.89	1.69	1.49
317884	JVP	R13-25C1-01	7	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	1.89	1.69	1.49
317905	JVP	R13-25C2-01	7	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	1.89	1.69	1.49
318086	JVP	R13-28C-01	3	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.89	1.69	1.49
318094	JVP	R13-28C-05	3	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.89	1.69	1.49
318107	JVP	R13-28C-06	3	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 screw	Round	1.89	1.69	1.49
317931	JVP	R13-25D1-05	2	3	SPDT on-off-on	1.14 x .60 x .62	.34	.34	—	10 @ 125 & 6 @ 250	Solder lugs	Paddle	1.95	1.75	1.55
317956	JVP	R13-25D2-05	7	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	1.89	1.69	1.49
318123	JVP	R13-28D-01	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.49	2.25	1.95
318131	JVP	R13-28D-05	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.49	1.25	.95
318141	JVP	R13-28D-06	3	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 screw	Round	3.79	3.19	2.95
158060	JVP	JKN32	1	4	SPDT on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.39	1.25	1.09
317850	JVP	R13-25B1-05	7	6	DPDT on-on	1.14 x .79 x .62	.40	.40	.40	10 @ 125 & 6 @ 250	Solder lugs	Paddle	1.95	1.75	1.49
318060	JVP	R13-28B-06	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 screw	Round	2.39	2.15	1.95
317972	JVP	R13-25E1-05	7	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.39	2.15	1.95
76260	JVP	SWM126	1	6	DPDT on-on	1.10 x .77 x .60	.30	.60	.30	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45
567761	+	SWM127	3	6	DPDT on-off-on	1.18 x .77 x .75	.40	.60	.40	10 @ 125 & 5 @ 250	M3 screw	Round	3.95	3.39	2.49
158078	JVP	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.29	1.15	1.05
318043	JVP	R13-28B-01	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	4.95	4.29	3.85
318052	JVP	R13-28B-05	3	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.85	3.45	2.69
621499	GCE	35-3005	6	—	SPST on-off	.92 x .64 x .40	—	.47	—	20 @ 125	.250" quick connect	Bat brass	1.95	1.75	1.49
621544	GCE	35-3020	4	—	DPDT on-on	1.32 x .75 x .82	.40	.60	.40	20 @ 125	.250" quick connect	Bat brass	4.45	4.15	3.95
620576	GCE	35-009	5	—	DPDT on-on-on	.50 x .45 x .40	.23	.15	—	5 @ 125	Solder	Bat brass	3.95	3.55	3.19

\* CHY = Cherry | GCE = GC Electronics | JVP = Jameco ValuePro | ITW = Illinois Tool | PRO = Pronic Electronic | + Manufacturer Varies

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# Miniature Toggle Switches

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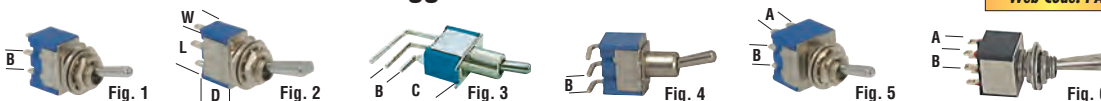
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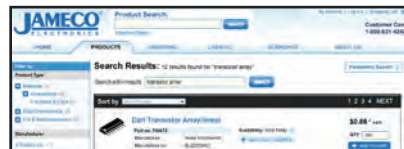
## Miniature Toggle Switches

★ Web Code: PAJ

- Mounting hole diameter: 1/4"
- Includes: Mounting hardware



Part No.	Mfr.	Product No.	Fig.	Pins	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing			Contact Rating (A @ VAC)	Terminal Type	Lever Type	Pricing		
							A"	B"	C"				1	10	100
76523	JVP	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.39	\$1.25	\$1.15
317287	JVP	1MS9T6B11M1QE	2	3	SPST on-off	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.49	1.35	1.19
777768	C&K	T101MHZQE	1	3	SPDT on-on	.32 x .20 x .34	—	0.100	—	3 @ 120	Solder lugs	Round	6.49	5.85	5.25
26332	JVP	MPC123R	1	3	SPDT on-on	.52 x .32 x .37	—	0.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.85	1.65	1.49
21936	JVP	JMT123	1	3	SPDT on-on	.52 x .32 x .38	—	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.25	1.09
75854	JVP	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.39	1.25
75871	JVP	SWM145	4	3	SPDT on-on	.52 x .32 x .38	—	0.185	0.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09
22833	JVP	MS102F1-R	2	3	SPDT on-on	.52 x .28 x .36	—	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Flat	1.49	1.39	1.25
71597	JVP	SWM148+	3	3	SPDT on-on	.52 x .32 x .38	—	0.185	0.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.19	1.09	.95
317236	JVP	1MS1T1B1M1QE	2	3	SPDT on-on	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.39	1.25	1.09
317295	JVP	1MS1T6B11M1QE	2	3	SPDT on-on	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.49	1.35	1.19
317279	JVP	1MS2T1B1M1QE	2	3	SPDT on-(on)	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.95	1.75	1.59
317332	JVP	1MS2T6B11M1QE	2	3	SPDT on-(on)	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.95	1.75	1.59
21910	JVP	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.35	1.25	1.09
2077044	JVP	MTS-103AA	3	3	SPDT on-off-on	.52 x .32 x .39	—	0.149	0.51	6 @ 125 & 3 @ 250	PC right angle	Round	1.29	1.19	.95
26315	JVP	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	—	0.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.29	1.15	1.05
317244	JVP	1MS3T1B1M1QE	2	3	SPDT on-off-on	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.95	1.75	1.59
317308	JVP	1MS3T6B11M1QE	2	3	SPDT on-off-on	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.95	1.75	1.59
317261	JVP	1MS5T1B1M1QE	2	3	SPDT on-off-(on)	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.95	1.75	1.59
317324	JVP	1MS5T6B11M1QE	2	3	SPDT on-off-(on)	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.95	1.75	1.59
75889	JVP	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.25	1.09
317252	JVP	1MS4T1B1M1QE	2	3	SPDT (on)-off-(on)	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.95	1.75	1.59
317316	JVP	1MS4T6B11M1QE	2	3	SPDT (on)-off-(on)	.50 x .27 x .35	—	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.49	1.35	1.19
317404	JVP	1MD9T1B1M1QE	6	6	DPST on-off	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	2.49	2.25	1.95
317463	JVP	1MD9T6B11M1QE	6	6	DPST on-off	.50 x .45 x .50	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	1.79	1.59	1.45
1585506	C&K	7201L1YZTME	5	6	DPDT on-on	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.25	1.09	.85
75900	JVP	SWM133	5	6	DPDT on-on	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.79	1.59	1.35
21979	JVP	JMT223	5	6	DPDT on-on	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.29	1.15
22859	JVP	GTS172BLK	6	6	DPDT on-on	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Flat	1.55	1.45	1.25
26367	JVP	GTS112-P	5	6	DPDT on-on	.52 x .50 x .41	0.20	0.157	—	6 @ 125 & 3 @ 250	PCB	Round	1.49	1.35	1.25
317412	JVP	1MD1T1B1M1QE	6	6	DPDT on-on	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	2.49	2.25	1.95
317472	JVP	1MD1T6B11M1QE	6	6	DPDT on-on	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	2.49	2.25	1.95
317455	JVP	1MD2T1B1M1QE	6	6	DPDT on-(on)	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.69	1.49	1.35
317519	JVP	1MD2T6B11M1QE	6	6	DPDT on-(on)	.50 x .45 x .36	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	2.49	2.25	1.95
26358	JVP	MPC221	5	6	DPDT on-off-on	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.95	1.75	1.49
21952	JVP	GTS114	5	6	DPDT on-off-on	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.55	1.35	1.15
317421	JVP	1MD3T1B1M1QE	6	6	DPDT on-off-on	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	2.49	2.25	1.95
317490	JVP	1MD3T6B11M1QE	6	6	DPDT on-off-on	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	2.49	2.25	1.95
202964	♦	WI24	3	6	DPDT on-off-(on)	.50 x .50 x .46	0.15	0.150	0.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.09	.89	.75
317447	JVP	1MD5T1B1M1QE	6	6	DPDT on-off (on)	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	2.49	2.25	1.95
317501	JVP	1MD5T6B11M1QE	6	6	DPDT on-off-(on)	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	2.49	2.25	1.95
567744	C&K	7105	2	3	DPDT (on)-off-(on)	.50 x .27 x .35	—	0.185	—	5 @ 125	PC straight	Round	1.25	1.09	.95
75951	JVP	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25
22841	JVP	GTS164BLK	6	6	DPDT on-off-on	.52 x .52 x .38	0.20	0.185	—	6 @ 125 & 3 @ 250	Solder lugs	Flat	1.49	1.29	1.15
317439	JVP	1MD4T1B1M1QE	6	6	DPDT (on)-off-(on)	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Round	2.49	2.25	1.95
317498	JVP	1MD4T6B11M1QE	6	6	DPDT (on)-off-(on)	.50 x .45 x .35	0.19	0.185	—	5 @ 120 & 2 @ 250	Solder lugs	Flat	2.49	2.25	1.95
547436	ALC	MTA306D	5	9	3PDT on-on	.70 x .51 x .45	0.19	0.190	—	6 @ 125 & 3 @ 250	Solder lugs	Round	10.95	9.95	8.95
317228	JVP	1MS9T1B1M1QE	1	2	SPST on-off	.50 x .27 x .35	—	0.190	—	5 @ 120 & 2 @ 250	Solder lugs	Round	1.95	1.75	1.49



## Quick and Easy Search

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\* ALC = AlcoSwitch | C&K = C&K Switches | JVP = Jameco ValuePro | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Subminiature Toggle Switches

★ Web Code: NAN

JAMECO ValuePro

- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware

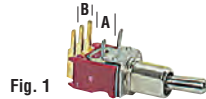


Fig. 2

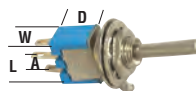
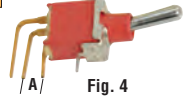


Fig. 3



Part No.	*Manufacturer	Product No.	Fig.	Pins	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Lever Type	Pricing		
							A"	B"				1	10	100
106067	JVP	SWP124+	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$1.89	\$1.75	\$1.49
567752	FUJ	AT1D-6M3	1	3	SPDT on-on	.37 x .22 x .33	.10	—	50mA @ 48VDC/VAC	PC right angle	Round	1.25	1.09	.95
72161	JVP	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.29	1.15	1.05
75969	JVP	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.69	1.49	1.29
1585493	C&K	ET012D1AVBE	4	3	SPDT on-on	.32 x .20 x .18	.10	—	20mA @ 20VDC/VAC	PC right angle	Round	.95	.89	.65
2076228	C&K (sealed)	ET05J6ABE	1	3	SPDT (on)-off-(on)	.32 x .32 x .20	.20	.08	4A @ 20VDC/VAC	PC right angle	Round	.95	.75	.59
72557	JVP	GTS304	2	3	SPDT (on)-off-(on)	.32 x .20 x .28	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05
75977	JVP	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.49	1.35	1.19
138907	JVP	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.55	1.39	1.19

JAMECO ValuePro

## Tri-State DIP Switch

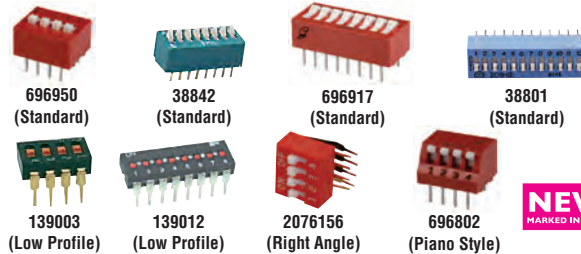
- Pre-tinned leads
- 8-position
- Two isolated buses
- Switch contacts: bused, tri-state
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- Compatible socket, use P/N 37373, pg 18



Part No.	Product No.	1	10	100	500
138992	ETA108E	\$1.95	\$1.75	\$1.49	\$1.25

## Standard, Low Profile, Piano & Right Angle DIP Switches

Compatible Socket Chart,  
see page 18 for Sockets



Switch	Socket	Switch	Socket
2-position	112193	7-position	112214
3-position	112193	8-position	112222
4-position	112206	9-position	112231
5-position	112214	10-position	38608
6-position	112214	12-position	112282

★ Web Code: UCY

## CD Series 8mm Rotary DIP Switch

- 16 positions
- Type: hex
- Contact res.: 50mΩ
- Insulation res.: 100MΩ min.
- Dielectric strength: 250Vrms min.
- Cover and base: glass filled nylon
- Contact rating: 0.4W @ 20VAC/VDC max.
- Contacts: copper alloy with gold plate over nickel
- Terminals: copper alloy with tin-plated alloy over nickel plate



Part No.	Product No.	Pkg.	1	10
581301	CD16RK1CK	DIP-8	\$11.95	\$10.75

Blue Part No. = Limited Quantity Available

## Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"
- Material: UL94V-0 grade
- Max. switching load rating: 25mA @ 24VDC
- Size: .39"W x .39"D x .20"H
- Top adjustment



★ Web Code: UAX

Part No.	Mfr. Part No.	Type	Pos.	1	10
139636	ERD110RSZ	BCD	10	\$2.89	\$2.59
139652	ERD116RSZ	HEX	16	2.95	2.65

## 94H Series Rotary DIP Switches

- Make & break rating: 30mA @ 30VDC for 10,000 cycles
- Contact res.: 50mΩ max.
- Type: BCD 10-position
- Carrying current rating: 100mA @ 50VDC
- Insulation resistance: 5,000MΩ min.
- Contact material: 30μ" gold over 50μ" nickel



Part No.	Product No.	Actuator	1	10
697071	94HAB10RAT	Flush right angle	\$2.19	\$1.95
788555	94HBB10T	0.270", straight	2.49	2.25

Part No.	Product No.	*Mfr.	Type	Pos.	Pricing		
					1	10	100
109057	206-2	◆	1,5	2	\$ .79	\$ .69	\$ .59
1951385	206-2LP	◆	2,6	2	.59	.49	.45
2076156	SDAX-2RX-X	BNS	3,5	2	.59	.49	.45
109059	206-2-VP-R	JVP	3,5	2	.89	.79	.69
206359	206-3	◆	1,5	3	.79	.69	.59
202472	ADF03	ALC	2,5	3	.69	.59	.49
696802	76PSB04ST	GRY	1,4	4	1.19	1.09	.95
38820	DT-04VP	JVP	1,5	4	.75	.65	.59
38818	206-4	◆	1,5	4	.59	.55	.49
696950	78B04ST	GRY	1,5	4	1.15	1.05	.85
696888	76SB04ST	GRY	1,7	4	.99	.89	.79
2082231	3-4356405	AMP	1,7	4	.69	.59	.49
206499	DPS804	FJT	2,4	4	.79	.69	.59
139003	206-4LP	JVP	2,5	4	.95	.89	.79
778251	209-4LPST	CTS	2,6	4	.49	.45	.39
2076164	SDAX-4RX-X	BNS	3,5	4	.69	.59	.49
2076181	SDAX-4RX-T	BNS	3,5	4	.79	.69	.59
2082249	JS8805	◆	1,6	5	.59	.49	.45
2082503	206-517	JVP	1,7	5	.59	.49	.45
2082515	206-518	JVP	1,8	5	.59	.49	.45
2076674	DPL-06KT	JVP	1,4	6	.79	.69	.59
38826	206-6	JVP	1,5	6	.89	.79	.69
38827	206-6R	JVP	1,5	6	.95	.89	.79
2076201	A6D-6100LP	OMN	2,6	6	.69	.59	.49
38834	206-7	◆	1,5	7	.95	.89	.79

\*1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush

## SMT Low Profile DIP Switches

★ Web Code: SDS

- Insulation resistance: 1000MΩ (min.) across open switch & between adjacent closed switch
- Contact resistance: 100mΩ initial
- Dielectric strength: 300VAC for 1 min.
- Gold plated beryllium copper contacts, gold flash coated terminals
- Bottom seal/top tape seal
- Non-switching rating: 100mA or 50VDC max.
- Length: 0.246"

Part No.	Manufacturer	Product No.	Positions	Type	1	10	100
2076199	Grayhill	90HB104SR	4	SPST	\$ .49	\$ .39	\$ .25
546759	Various	3-435668	5	SPST	.59	.45	.29
1945022	Various	SMT-6PDS	6	SPST	.69	.55	.39



\* ALC = Alcoswitch | AMP = AMP/Tyco | BNS = Bourns | C&K = C&K Switches | CTS = CTS | FJT = Fujitsu | FUJ = Fujisoku | GRY = Grayhill | JVP = Jameco ValuePro | OMN = Omron | ◆ Mfr. Varies

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Rotary, Specialty, Tactile & Keypad Switches

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ValuePro

## Rotary Switches

- Contact rating: 30VDC @ 0.3A 101574
- Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ
- Lug size: 0.07" • Mounting hole diameter: 3/8"
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101566 – plastic casing) • Panel mount
- Make before break • Solder lugs • Layers: 1
- Shaft size: 0.46"L x 0.25" Dia.; except P/N 101566 (1.16"L x 0.25" Dia.)

\* Web Code: DAM

Includes: Washer and nut

Part No.	Cross Ref.	Poles	Pos.	1	10	100
101532	G3SR026	1	12	..... \$ .95	..... \$ .85	..... \$ .75
101574	G3SR022	2	6	..... .95	..... .85	..... .75
101566	G3SR023	3	4	..... .95	..... .85	..... .75
101558	G3SR024	4	3	..... .95	..... .85	..... .75
622352	35-376	1	12	..... 2.95	..... 2.65	..... 2.39

† Solder eyelet style

## C&K A Series Rotary Switches

- 1.5"H flatted actuator
- 3/8-32 threaded mounting style
- Solder lug terminals
- Dielectric strength: 1000Vrms
- 15,000 make & break cycles
- Contacts and terminals: brass, silver plated
- Contact resistance: 20mΩ typical @ 2-4VDC
- Contact rating: 2.5A @ 125VAC; 250mA @ 250VDC
- Housing/actuator: glass filled 6/6 nylon (UL94V-0)

576501

Part No.	Product No.	Type	Pos.	1	10
576501	A11215RNZQ	SP, 300 index	12	\$6.95	\$6.25
576421	A20615RNZQ	DP, 300 index	6	6.95	6.25

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## 12-Button Numeric Keypads

\* Web Code: XBA

- 8-pin & 10-pin .100" header
- 10 pin w/ multicolor wires
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Size: 3.0"L x 2.2"W x 0.6"H (8-pin) white
- Size: 2.5"L x 2.1"W x 0.4"H (10-pin) black

2082206

Part No.	Description	1	10	100
190562	8-pin header keypad	..... \$6.95	..... \$6.25	..... \$4.95
2081828	10-pin wire keypad	..... 6.95	..... 6.25	..... 4.95
2082206	10-pin header keypad	..... 6.95	..... 6.25	..... 4.95

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Size (housing): 4.7"W x 1.7"H x 0.4"T
- Recommended connector: P/N 103191 header & 100766 pin, pg 81

\* Web Code: XBA

Part No.	Description	1	10	100
196171	2x8 matrix keypad	..... \$16.95	..... \$14.39	..... \$12.75
152063	4x4 matrix keypad	..... 14.95	..... 13.49	..... 12.49

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## 16-Button Numeric Keypad

\* Web Code: XBA

- 8-position solder pad
- Size: 3.0"L x 2.8"W x 0.6"H
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key

Part No.	Cross Ref. No.	1	10	100
169245	AK-1607-N-BBW-R	..... \$9.95	..... \$8.95	..... \$7.95

## Specialty Switches



**Pull Chain Switch** • Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

Part No.	*Mfr.	Product No.	Contact Form	Actuator	Terminal Type	1	10	100
617764	GCE	35-864	SPST on-off	3 1/2" pull chain	6" wires	\$2.95	\$2.75	\$2.49

### Magnetic Proximity

• Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC, P/N 588123/588182/588131: 30VAC @ .3A

Part No.	*Mfr.	Product No.	Contact Form	Actuator	Terminal Type	1	10	100
617529	GCE	35-752	SPDT NO/NC	Use magnet	Leaded SD	\$4.95	\$4.49	\$3.95
617545	GCE	35-756	SPDT NO/NC w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	6.95	6.25	5.59
588123	C&K	MPS20WGW	SPST NO	Use magnet	Screw terminal	12.95	11.49	10.35
588182	C&K	MPS9WGW	SPST NO	Use magnet	Wires	9.95	8.95	7.95
588131	C&K	MPS45WGW	SPST NO	Use magnet	Lead wires, 22AWG, 12"L	6.29	5.79	5.35

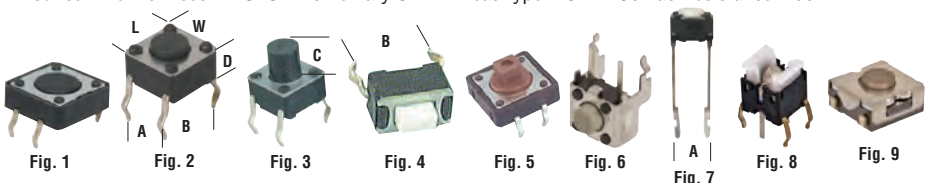
**Knife Switch** • Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

Part No.	*Mfr.	Product No.	Contact Form	Actuator	Terminal Type	1	10	100
617490	GCE	35-730	DPDT on-off-on	Plastic handle	Screw terminal	\$5.95	\$5.35	\$4.79

## Tactile Switches

\* Web Code: QBF

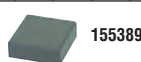
- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ



Part No.	*Mfr.	Product No.	Fig.	Pins	Dimensions (ins.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing		
					L	W	D	C	A"	B"			1	10	100
1586074	PAN	EVQ-PAG04K	2	4	.24	.24	.14	.05	.17	.26	20 @ 12	Black	\$2.29	\$2.25	\$1.19
199726	PAN	EVQ11A04M	7	2	.24	.24	.14	.30	.20	.17	20 @ 15	White	.35	.29	.25
2095120	PAN	EVQ11L07K	7	2	.24	.24	.14	.28	.20	—	20 @ 15	Black	.35	.29	.25
119011	JVP	KT11B1CM	2	4	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.29	.25	.19
149948	JVP	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	.29	.25	.19
122973	JVP	DT51212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	.35	.29	.25
2076236	PAN	EVQPH03T	9	4	.24	.24	.10	.02	.15	.26	20 @ 15	Brown	.35	.29	.25
155249	JVP	KRS-3550-BK	4	2	.24	.14	.15	—	.27	.50	50 @ 12	Black	.35	.29	.25
155256	♦	KRS-3550-WH	4	2	.24	.14	.15	.03	—	.26	50 @ 12	White	.35	.29	.25
153252	JVP	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.19
155380	JVP	KRS-1273B	5	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.29
153251	ESW	TL1105-A	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.25	.19	.15
202956	♦	KSM06330	8	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	.29	.25	.19
162886	OMN	B3F-1000	2	4	.24	.24	.13	.03	.17	.25	50 @ 24	White	.29	.25	.19
1953575	OMN	B3F-3122	6	4	.29	.29	.25	.06	.17	.28	50 @ 24	Gray	.29	.25	.19
2076261	OMN	B3E-1100-Red*	8	4	.24	.24	.19	.07	.17	.25	50 @ 24	Red	.49	.39	.29
2076287	OMN	B3E-1300-Green*	8	4	.24	.24	.19	.07	.17	.25	50 @ 24	Green	.49	.39	.29
2076252	ITT	KSC121JB	9	4	.24	.24	.10	—	.15	.26	50 @ 32	Gray	.25	.19	.15
2076148	♦	KFC-A12-A	2	4	.47	.47	.15	.08	.17	.50	100 @ 50	Black	.39	.35	.29

\* Illuminated

♦ See switch cap below



155389



155409

Order in multiples of 10

### Tactile Switch Caps

Part No.	*Mfr.	Product No.	Description	Dimensions	Material	For Use With	10	100	1000
155389	JVP	KRS-CAP-A	Square	.47"L x .47"W x .16"H	Plastic	P/N 155380	\$.15	\$.12	\$.09
155409	JVP	KRS-CAP-B	Round	.50"Dia. x .25"H	Plastic	P/N 155380	.15	.12	.09

JAMECO ValuePro

## SPST Round Keylock Switches

- Used in computer and other security systems
- Mounting hole = 0.75" (except P/N 106650 = 0.5")
- Key removable from 2 positions • Two keys
- 105832: All keys are different; 196649: All keys are alike
- Includes: Mounting nut

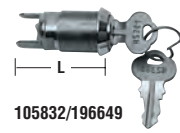
JAMECO EXCLUSIVE

\* Web Code: RAN

Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	50
106650	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	\$4.55	\$4.09	\$3.55
105832	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.95	4.49	3.95
196649	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.95	4.49	3.95



106650



105832/196649

\* C&K = C&K Switches | ESW = E-Switch Inc. | GCE = GC Electronics | ITT = ITT Cannon | JVP = Jameco ValuePro | OMN = Omron | PAN = Panasonic | ♦ Manufacturer Varies

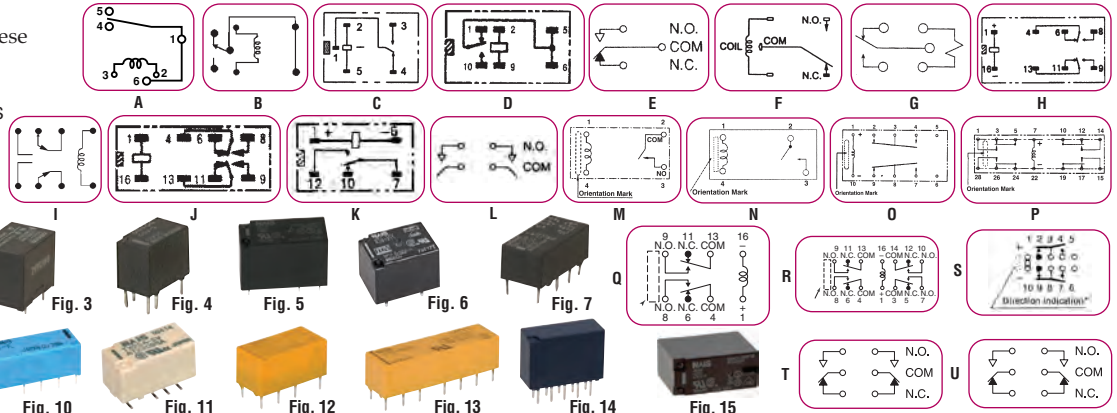
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Small PC Mount Relays

\* Web Code: SAV

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

- Mechanical life: 10 million operations
- Electrical life: 100,000 operations
- Dielectric strength: 1500V<sub>RMS</sub> (between contact and coil)



Part No.	Manufacturer	Product No.	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Current	Contact Voltage	Pins	Dimensions (L" x W" x H")	Pricing		
												1	10	50
2077394	Fujitsu	JV-3S-KT	—	8M	SPST-NO	3VDC	45	5A	250VAC/30VDC	4	.69 x .39 x .49	\$2.25	\$1.79	\$1.39
2077271	Fujitsu	FTR-F2AL006T	—	8N	SPST-NO	6VDC	145	5A	250VAC/30VDC	4	.95 x .43 x .98	1.75	1.39	1.15
2077378	Fujitsu	FBR161NED006-WB	—	3F	SPST	6VDC	100	10A	120VAC/30VDC	5	.85 x .63 x .63	1.95	1.59	1.25
145753	Rayex*	L90A-12W	T90S1D12-12	1A	SPST	12VDC	155	30A/20A	240VAC/28VDC	5	1.2 x 1.0 x .77	2.95	2.65	1.95
553289	Potter & Brumfield	T90S1D12-18	—	1A	SPST	18VDC	380	30A/20A	240VAC/28VDC	6	1.27 x 1.08 x .81	2.25	1.95	1.75
134949	Rayex	L90-5W	T90S5D12-5	1A	SPDT	5VDC	27	20A	240VAC/28VDC	6	1.3 x 1.1 x .80	2.39	2.15	1.89
187151	Omron	G5LE-1DC5	—	3C	SPDT	5VDC	63	10A/8A	120VAC/30VDC	5	.90 x .65 x .75	1.45	1.39	1.35
843155	Panasonic	JS1-5V	T7C55D-05	6F	SPDT	5VDC	69.4	10A/5A	250VAC/100VDC	5	.87 x .63 x .63	1.19	1.09	.95
174450	Rayex	LU-5	T81H5D215	2B	SPDT	5VDC	125	1A/2A	120VAC/24VDC	6	.60 x .40 x .45	1.95	1.79	1.59
187418	Omron	G6E-134P-ST-US-DC5	—	4K	SPDT	5VDC	125	.4A/2A	125VAC/30VDC	5	.63 x .39 x .33	2.95	2.75	2.49
760616	Panasonic	DS1E-S-DC5V	—	12Q	SPDT	5VDC	125	2.0A	125VAC/30VDC	5	.59 x .39 x .39	6.19	5.95	5.29
187240	Omron	G5V-1-DC5	T5C-105L3H	4D	SPDT	5VDC	166.7	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.29	2.05	1.85
454563	Hasco	KLTIIC12DC9	—	2G	SPDT	9VDC	225	12A	120VAC/28VDC	5	.73 x .59 x .61	1.75	1.49	1.25
664309	Nais (Aromat)	JW1FSN-DC12V	RTB14012F	5E	SPDT	12VDC	270	10A	250VAC/30VDC	5	1.13 x .51 x .79	2.49	2.25	1.95
144186	Velleman	JZC-22F	VR15M121C	2G	SPDT	12VDC	337	15A	120VAC/28VDC	5	.80 x .64 x .80	3.79	3.39	3.05
842734	Panasonic	DS1E-M-DC12V	—	12Q	SPDT	12VDC	360	2A	125VAC/30VDC	5	.59 x .39 x .39	4.39	3.89	3.59
174432	Rayex	LEG-12F	T7C55D12	2G	SPDT	12VDC	400	15A	120VAC/24VDC	5	.76 x .62 x .60	1.89	1.59	1.49
184461	Omron	G5V-1-DC12	—	4D	SPDT	12VDC	960	.5A/1A	125VAC/24VDC	6	.50 x .30 x .40	2.25	2.05	1.85
172937	Nais (Aromat)	JS1-12V	T72M5D121-12	6F	SPDT	12VDC	400	10A/5A	125VAC/24VDC	5	.85 x .62 x .63	1.15	1.09	.95
2078186	Fujitsu	FBR161NED012	T7C55D-12	2F	SPDT	12VDC	400	10A	125VAC/30VAC	5	.80 x .60 x .60	1.95	1.75	1.25
760595	Panasonic	DS1E-S-DC12V	—	11Q	SPDT	12VDC	720	2.0A	125VAC/30VDC	5	.59 x .39 x .39	6.49	5.95	5.35
843201	Nais (Aromat)	JW1FSN-DC24V	RTB14024F	5F	SPDT	24VDC	1100	10A/10A	250VAC/30VDC	5	1.11 x .49 x .78	1.95	1.75	1.49
187400	Omron	G6E-134P-ST-US-DC48	—	4K	SPDT	48VDC	5760	.4A/2A	125VAC/30VDC	5	.63 x .39 x .33	5.95	5.25	4.75
998190	Panasonic	JW2ASN-DC5V	RTE44005F	5L	DPST	5VDC	47	5A/5A	250VAC/30VDC	6	1.13 x .50 x .79	1.95	1.75	1.55
215909	Potter & Brumfield	RKA-7DZ-12	—	4I	DPST-NO	12VDC	270	5A/5A	250VAC/24VDC	6	1.16 x .57 x 1.05	2.29	1.95	1.69
15051	Panasonic	AGQ200A4HZ	SMD-PKG	11I	DPDT	4.5VDC	145	.3A/1A	125VAC/30VDC	8	.417 x .283 x .213	2.19	1.95	1.75
2077255	NEC	EE2-4.5NUX-L†	SMD-PKG	11I	DPDT	4.5VDC	145	.5/2A	125VAC/30VDC	8	.59 x .30 x .35	1.95	1.59	1.25
2077415	Fujitsu	BA-5W-K	—	7I	DPDT	5VDC	100	.5A/1A	125VAC/30VDC	8	.59 x .29 x .38	2.19	1.75	1.35
761336	Panasonic	JW2SN-DC5V	—	15T	DPDT	5VDC	47	5A/5A	250VAC/30VDC	6	1.13 x .50 x .79	2.49	2.29	2.05
842849	Panasonic	DS2E-M-DC5V	—	12Q	DPDT	5VDC	62.5	2A	250VAC/220VDC	8	.79 x .39 x .37	3.25	2.95	2.75
187282	Omron	G6A-234PSTUSDC5	G93416	7H	DPDT	5VDC	125	.3A/1A	125VAC/30VDC	8	.80 x .33 x .40	4.15	3.89	3.69
842953	Panasonic	DS2E-S-DC5V	—	13R	DPDT	5VDC	125	2A	125VAC/30VDC	8	.79 x .39 x .39	3.85	3.65	3.49
843649	Panasonic	TXA2SA-5V	—	11I	DPDT	5VDC	178	2A	30VDC	8	.59 x .29 x .22	1.95	1.75	1.55
2081650	NEC	EC2-5NJ	—	9I	DPDT	5VDC	178	2A	220VAC/220VDC	8	.59 x .30 x .37	2.49	2.25	1.95
15034	Panasonic	TN2-5VDC	—	14S	DPDT	5VDC	178	.5A/1A	125VAC/30VDC	10	.55 x .22 x .39	2.49	2.25	1.95
2077263	Siemens	V23079-F1101-B301†	SMD-PKG	11I	DPDT	5VDC	357	5A	250VAC/220VDC	10	.57 x .28 x .41	1.95	1.59	1.25
2077386	Fujitsu	AL-D9W-K	—	7O	DPDT	9VDC	45	.5A/1A	125VAC/30VDC	10	.55 x .35 x .20	1.95	1.59	1.25
174378	Rayex	LM2-12D	RKA5DZ12	8I	DPDT	12VDC	270	5A	250VAC/30VDC	8	1.2 x .48 x 1.0	2.49	2.25	1.95
843235	Panasonic	JW2SN-DC12V	—	15T	DPDT	12VDC	270	5A	250VAC/30VDC	6	1.13 x .50 x .79	2.49	2.25	1.95
187258	Omron	G5V-2-DC12	—	9J	DPDT	12VDC	288	.5A/2A	125VAC/30VDC	8	.81 x .40 x .45	2.85	2.49	2.19
842793	Panasonic	DS2E-M-DC12V	—	13R	DPDT	12VDC	360	2A	125VAC/30VDC	8	.79 x .39 x .39	3.09	2.95	2.65
842873	Panasonic	DS2E-ML2-DC12V	—	12U	DPDT	12VDC	400	2A	250VAC/220VDC	10	.79 x .39 x .39	3.95	3.75	3.35
842902	Panasonic	DS2E-S-DC12V	—	13R	DPDT	12VDC	720	2A	250VAC/220VDC	8	.79 x .39 x .39	3.85	3.65	2.75
843260	Panasonic	JW2SN-DC24V	—	15T	DPDT	24VDC	1100	5A	250VAC/300VDC	6	1.13 x .50 x .79	2.49	2.25	1.95
2078215	Omron	G2VN-234P-US	—	7H	DPDT	24VDC	1600	.5A/1.5A	120VAC/30VDC	8	.77 x .39 x .401	2.49	2.25	1.95
200740	Omron	G5V-2-HI	—	9J	DPDT	24VDC	2800	.5A/1A	125VAC/24VDC	8	.81 x .40 x .45	2.29	2.05	1.85
2078274	Fujitsu	FBR46D024	—	7H	DPDT	24VDC	2880	.5A/1A	120VAC/30VDC	8	.63 x .39 x .33	1.95	1.75	1.49
842937	Panasonic	DS2E-S-DC24V	—	12Q	DPDT	24VDC	2880	2A	250VAC/220VDC	8	.79 x .39 x .37	3.85	3.65	3.25
2077360	Fujitsu	RA4-12W-K	—	10P	4PDT	12VDC	720	.5A/1A	120VAC/24VDC	14	1.39 x .39 x .39	4.95	3.95	2.95
843041	Panasonic	DS4E-S-DC12V	—	13R	4PDT	12VDC	720	2A	250VAC/220VDC	14	1.39 x .39 x .37	9.95	8.95	7.95

\* Manufacturer may vary † SMD Package

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Solid State & DIP Relays

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



164996 (Fig. 1)



153059 (Fig. 2)



162342 (Fig. 3)



192815 (Fig. 4)



176698 (Fig. 5)



127790 (Fig. 6)



176736 (Fig. 7)



187004 (Fig. 8)



1630987 (Fig. 9)

\* Web Code: DBA

## DC/AC and DC/DC Solid State Relays

Part No.	Mfr.	Product No.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Dimentions (L" x W" x H")	Pricing		
													1	10	50
Solid State Relays DC/AC Type															
164988	Sharp	S101S02	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	\$4.29	\$3.95	\$2.89
164996	Sharp	S202TA1	1.2VDC@20mA	DC/AC	SPST	200VAC	2.0A	4	1	Solder lead	UL/CSA	0.9 x .16 x .63	7.29	5.85	4.95
153059	COSMO	KSD203AC2	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder lead	—	1.4 x 0.3 x 0.9	9.95	8.95	7.95
162342	Excel	ESR51024-010	3-32VDC	DC/AC	SPST	240VAC	10A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	18.95	16.95	15.25
186992	Omron	G3NA-210B-DC5-24	5-24VDC	DC/AC	SPST	240VAC	10A	4	8	Screw terminal	UL/CSA	1.7 x 1.1 x 2.3	15.95	14.35	12.89
187004	Omron	G3NA-220B-DC5-24	5-24VDC	DC/AC	SPST	240VAC	20A	4	8	Screw terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.95	16.49
162369	Excel	ESR51024-025	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	27.95	24.95	21.95
162406	Excel	ESR51024-040	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw terminal	UL	1.7 x 1.1 x 2.3	27.59	24.85	22.45
192815	COSMO	KSD240AC8+	4-32VDC	DC/AC	SPST	250VAC	40A	4	4	Screw terminal	—	1.8 x 0.6 x 2.3	19.95	17.95	16.15
175214	Kyoto	KB20C02A	3-32VDC	DC/AC	SPST	280VAC	2A	4	5	Solder lead	CE	1.4 x 0.3 x 1.5	6.55	5.95	5.69
127790	Crydom	D2W202F	13-32VDC	DC/AC	SPST	280VAC	2A	4	6	Solder lead	UL/CSA	1.7 x 0.4 x 1.3	9.95	8.95	7.95
176698	Kyoto	KB20C06A	3-32VDC	DC/AC	SPST	280VAC	6A	4	5	Solder lead	CE	1.4 x 0.3 x 0.9	10.89	9.79	8.69
176719	Kyoto	KD20C40AX	3-32VDC	DC/AC	SPST	280VAC	40A	4	7	Screw terminal	UL/CE	1.7 x 0.9 x 2.3	19.95	17.95	16.19
176736	Kyoto	KD20C75AX	3-32VDC	DC/AC	SPST	280VAC	75A	4	7	Screw terminal	UL/CE	1.7 x 0.9 x 2.3	39.95	35.95	32.39
Solid State Relays DC/DC Type															
172591	Kyoto	KF0602D	3-32VDC	DC/DC	SPST	60VDC	2A	4	5	Solder lead	CE	1.4 x 0.3 x 0.9	\$11.95	\$10.75	\$9.55
175222	Kyoto	KF0604D	3-32VDC	DC/DC	SPST	60VDC	4A	4	5	Solder lead	CE	1.5 x 0.3 x 0.9	13.95	12.95	12.69
176648	Kyoto	KG1005D	3-32VDC	DC/DC	SPST	120VDC	5A	4	7	Screw terminal	CE	2.3 x 1.7 x 0.9	27.95	25.15	22.35
176655	Kyoto	KG1010D	3-32VDC	DC/DC	SPST	120VDC	10A	4	7	Screw terminal	CE	2.3 x 1.7 x 0.9	29.95	26.95	24.29
1630987	Infineon	LH1500AAB	—	DC/DC	SPST	350VDC	0.15A	6	9	SOIC-6	UL/CSA	.34 x .26 x .15	2.65	2.39	2.15



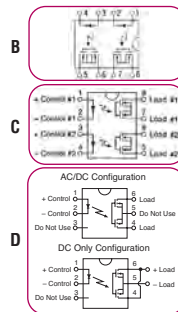
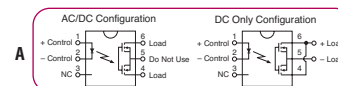
Fig. 1

Fig. 2

## OptoMOS® Solid State Relays

\* Web Code: WDX

Part No.	Product No.	Package	Description	Fig.	Load Voltage (V)	Current Handling (mA)	On-Resistance (ohms)	Isolation Voltage (Vrms)	Input Control Current (mA)	Off-State Leakage (µA)	Switching Speed (on/off) (ms)	Pricing		
1582903	LAA110	DIP-8	Dual single pole, 1-Form-A	1C	350	120	35	3750	5	1	3/3	\$4.29	\$3.85	\$3.45
1582989	LBA110S	SOIC-8	Dual single pole, 1-Form-A	2B	350	120	35	3750	2	1	3/3	4.29	3.85	3.45
1582954	LAA127	DIP-8	Dual pole, 2-Form-A	1C	250	200	10	3750	5	1	5/5	5.95	5.35	4.79
1582997	LCA110	DIP-6	Single pole, 1-Form-A	1A	350	120	35	3750	2	1	3/3	1.85	1.65	1.49
1583148	PAA140S	SOIC-8	Dual single pole, 2-Form-A	2C	400	250	8	3750	5	1	3/1	6.95	6.25	5.59
1583041	LCA710	DIP-6	Single pole, 1-Form-A	1E	60	1000	0.5	3750	10	1	2.5/0.25	4.95	4.45	3.95
1582911	LAA110P	Flatpack-8	Dual single pole, 1-Form-A	2C	350	120	35	3750	5	1	3/3	4.29	3.75	3.39



## DIP Relays

\* Web Code: QAN

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant



106463



2081377

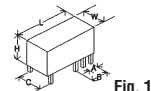


Fig. 1

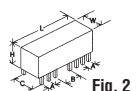


Fig. 2

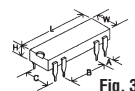
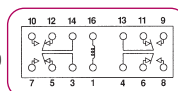
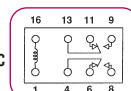
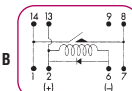
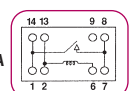


Fig. 3



Part No.	Manufacturer	Product No.	Fig.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Dimensions (L" x W" x H")	Leads (A" x B" x C")	Pricing		
106463	Excel	201A05	3A	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.78 x .25 x .20	.10 x .40 x .30	\$2.59	\$2.15	\$1.79
138431	Excel	2D1A05	3B	SPST-NO	5VDC	500	100VDC	0.5A	8	37162	.77 x .30 x .22	.10 x .40 x .30	2.75	2.45	1.95
173914	Aromat	DS2YE-S-DC5V	1C	DPDT	5VDC	125	125VAC/100VDC	0.5A/1.25A	8	37401	.79 x .38 x .44	.18 x .28 x .29	2.25	1.95	1.79
139977	ValuePro	RSB5S	1C	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37373	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95
2081414	KEST	KS2E-M-DC5	1C	DPDT	5VDC	128	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.25	1.95
2081377	KEST	KS2E-M-DC12	1C	DPDT	12VDC	708	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.25	1.95
99311	Aromat (NAIS)	DS2Y-S-DC12V	1C	DPDT	12VDC	720	110VAC/30VDC	0.3A/1A	8	37373	.79 x .40 x .43	.20 x .40 x .30	2.65	2.39	2.09
136549	Aromat	DS4E-M-DC5V	2D	4PDT	5VDC	62.5	125VAC/30VDC	0.6A/2A	14	112301	1.40 x .40 x .36	.20 x .30 x .30	5.95	5.35	4.79
176313	Aromat	DS4E-M-DC12V	2D	4PDT	12VDC	360	125VAC/30VDC	0.6A/2A	14	112301	1.40 x .40 x .36	.20 x .30 x .30	6.79	6.35	5.95
2081406	KEST	KS2E-M-DC24	1C	DPDT	24VDC	1440	125VAC/28VDC	1A/2A	8	37373	.83 x .40 x .48	.20 x .30 x .30	2.49	2.25	1.95
1860088	Hamlin Breed	HE3621A0510	—	SPST-NO	5VDC	1000	200VDC	0.5A	4†	—	.75 x .20 x .30	.20 x .60	1.19	.95	.89

† SIP

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



For complete specifications  
visit [www.Jameco.com](http://www.Jameco.com)

## General Purpose Power Relays

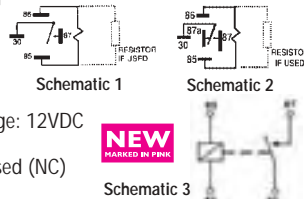
Part No.	Mfr.	Product No.	Type	Rating	Contact Rating	Coil Resis.	Contact Type	1	10	50
454571	Omron	G7L-1A-TUB-DB-CC24	SPST-NO	24VDC @ 79mA	25A, 220VAC	303Ω	.250" quick connect	\$7.95	\$6.95	\$5.95
611928	P&B	T9AP1D52-48-03	SPST-NO	48VDC @ 21mA	30A, 240VAC	2304Ω	Quick connect: .187" for coil/.250" for contacts	4.19	3.95	3.75
137358	ValuePro	953-1C12DM-R	SPDT	12VDC @ 77mA	20A, 240VAC/28VDC	155Ω	Quick connect: .110" for coil/.250" for contacts	2.95	2.85	2.75
552462	P&B	PRD-7AG0-120	DPST-NO	120VAC @ 85mA	30A, 240VAC	290Ω	Screw: #8-32 for main; #6-32 for contacts	29.95	28.95	27.95
551881	P&B	PRD-11AG0-120	DPDT	240VAC @ 43mA	30A, 240VAC	1200Ω	Screw: #8-32 for main; #6-32 for contacts	49.95	44.95	39.95
183791	Master	GH-2C-12D	DPDT	12VDC @ 170mA	30A, 240VAC	70Ω	Screw down terminals	14.95	13.49	11.95
553422	P&B	T92P11A22-120	DPDT	120VAC @ 33mA	30A, 120VAC	950Ω	.250" quick connect	15.95	14.35	12.95



## Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

### VF Series

- Dielectric strength: 500VDC (between contact & coil)
- Operating temp.: -35°C to +85°C
- Contact current: 40A • Coil voltage: 12VDC
- Terminal type: quick connect
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



★ Web Code: PBB



Part No.	Mfr.	Product No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Ohms	Coil Voltage	Contact Schematic	Pins	1	10	50
2094178	Sanyou	SARL-112DMFK	VF7-41F11	3	SPST-NO	80	12VDC	1	4	\$5.95	\$5.35	\$4.79
1810179	Rayex	LD1A-12BP	—	3	SPST-NO	80	12VDC	3	5	1.79	1.59	1.45
171460	Rayex	LD1A-12F	VF4-81F11S01	1	SPST-NO	78	14VDC	1	4	3.19	2.89	2.65
171442	Rayex	961A-1A12D*	VF4-11F11	2	SPST-NO	90	14VDC	1	4	2.89	2.59	2.49
171522	Rayex	LD5F	VF4-45D11	1	SPDT	14	25VDC	2	5	1.95	1.75	1.49
148583	Rayex	LD12F	VF4-85F11	3	SPDT	78	12VDC	2	5	3.09	2.89	2.59
2094135	Sanyou	SARL-112D	VF4A-15F11	2	SPDT	80	12VDC	2	5	3.49	3.15	2.79
2094151	Sanyou	SARL-112DF	VF45A-45F11	3	SPDT	80	12VDC	2	5	3.49	3.15	2.79
171433	Various	961A-1C-12DM	VF4-81F11	3	SPDT	90	12VDC	2	5	3.19	2.95	2.69
2094186	Sanyou	SARL-125D	VF4A-15F11	2	SPDT	320	24VDC	2	5	3.49	3.15	2.79
2094194	Sanyou	SARL-124DF	VF4A-45H11	3	SPDT	320	24VDC	2	5	3.49	3.15	2.79

\*Comes with a removable clip

## 4-Pin Reed Type Relay

- Contact form: SPST-NO
- Contact volt.: 120VAC/60VDC
- Coil voltage: 12VDC
- Contact current: 0.1A
- Terminal type: PCB solder
- Operating temp.: -30°C to +60°C
- Dielectric strength: 1500VDC (between contact & coil)
- Dimensions: 1.0"L x .37"W x .38"H



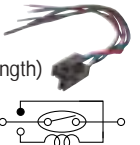
Part No.	Product No.	1	10	50	100
111448	BR-1050	\$1.95	\$1.75	\$1.49	\$1.25

## Relay Socket with Coil Diode

### VF Series

★ Web Code: DBA

- 12 AWG: 2 black & 1 blue wire;
- 18 AWG: 1 black & 1 red wire (7.5" length)
- Contact voltage/current: 12V/20A
- Diode coil suppression
- Use with P/N 148583, pg 99



Part No.	Product No.	1	10	50
170624	RSD03	\$2.35	\$2.15	\$1.89

## CNT Series Multifunction, Digital Time Delay Relay/Counter

- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second • DPDT
- Rating: 10A @ 30VDC or 277VAC resistive • 11-pin octal style plug

Power Requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Product No.	Voltage	1	10
282239	CNT-35-96	24-240VAC/VDC	\$129.95	\$119.95



## Beta Electric General Purpose Relay

### BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

- Contact rating: 120VAC/28VDC @ 13A; 240VAC @ 10A • 3PDT • 11-pin
- Ambient operating temperature: -30°C to +50°C • Size: 1.5"L x 1.4"W x 2.2"H

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139854	BTA2-3C-24VDC	R10-14D10-24	24VDC	\$9.45	\$7.95	\$5.95



## S89R Series Bistable, Impulse Relay

- Contact rating: 15A • Nominal power: 9W @ 25°C
- Contact life: 10 million operations; 50,000 mechanical operations
- Initial breakdown voltage: 1,500Vrms, 60Hz
- Dust cover with octal plug-in base • Current: 75mA

Part No.	Product No.	Voltage	Resistance	1	10
282546	S89R11APP1-120	120VAC	260Ω	\$49.95	\$44.95



## CDB Series CMOS IC Time Delay Relay

- Timing ranges: 0.1 seconds to 180 seconds • DPDT
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 10,000 operations min. @ rated load

Power Requirement: AC or DC — typically less than 3W

Part No.	Product No.	Voltage	Time (sec)	Pins	1	10
497299	CDB-38-70004	120VAC	0.6 – 60	8	\$249.95	\$239.95



★ Bistable, Impulse Relays Online — Enter Web Code QDR

★ I/O Module Relays Online — Enter Web Code TBW

## Blade and Octal Relay Sockets

Part No.	Mfr.	Product No.	Relay Series	Pins	Contact Type	Type	1	10	50
175531	ValuePro	27E895	K10	8	DPDT	Combo†	\$3.95	\$3.69	\$3.35
282191	P&B	27E895	K10	8	DPDT	DIN Rail	4.79	4.69	4.59
496958	P&B	27E166	KHA/KHUA	14	4PDT	Standard	11.95	10.75	9.65
175557	ValuePro	27E894	KHUA	14	4PDT	DIN Rail	3.39	3.09	2.75
282183	P&B	27E894	KHA/KHS/PT	14	4PDT	DIN Rail	7.29	6.89	6.65
282132	P&B	27E122	KRP/KRPA	8	DPDT	Standard	4.25	4.05	3.85
282141	P&B	27E123	KRP/KRPA	11	3PDT	Standard	6.95	6.25	5.59
282167	P&B	27E892	KRP/KRPA	11	3PDT	DIN Rail	9.95	8.95	7.95
282124	P&B	27E121	KUP/KUEP/KUMP	11	3PDT	Standard	6.95	6.25	5.59
282175	P&B	27E121	KUP/KUEP/KUMP	11	3PDT	Din Rail	10.95	9.95	8.95
141145	Beta	PF-083A	BTA1	8	DPDT	Combo†	4.29	4.15	3.65

† Combo: DIN Rail or Screw Terminal



NEW  
MARKED IN PINK

★ Web Code: TEM

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# Relays, Photocells, Thermistors & Sensors

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## JAMECO ValuePro General Purpose Blade and Octal Relays

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications

\* Web Code: ACF



Part No.	Mfr.	Product No.	Fig.	Contact Form	Contact Rating	Coil Voltage	Coil Resis. (Ω)	Coil Current (mA)	Mating Socket*		Pricing		
									Standard	DIN Rail	1	10	50
282440	P&B	KRPA-5DG-24	5	SPDT	10A @ 240VAC	24VDC	472	51	282132	282159	\$21.95	\$19.95	\$17.95
498671	P&B	KUEP-11D15-12	2	DPDT	3A @ 150VDC; 10A @ 240VAC	12VDC	80	150	282124	282175	6.95	6.25	5.65
760798	PAN	HC2-H-DC12V	8	DPDT	3A @ 30VDC; 5A @ 250VAC	12VDC	160	75	496958	282183	7.19	6.55	5.85
139766	BTA	BTAG-2C-J-CW-12VDC	4	DPDT	10A @ 28VDC; 12A @ 120VAC	12VDC	120	10	141145	141145	8.95	7.95	6.95
172719	JVP	LB2-1205-R	3	DPDT	12A @ 30VDC; 12A @ 240VAC	12VDC	160	75	175531	282191	5.95	4.69	4.19
282255	P&B	K10P-11D15-12	1	DPDT	15A @ 30VDC; 15A @ 120VAC	12VDC	160	75	282191	282191	7.25	6.65	6.15
175565	JVP	LB2-24DS-R	3	DPDT	12A @ 30VDC; 12A @ 240VAC	24VDC	650	37	175531	282191	6.25	4.75	4.25
282263	P&B	K10P-11D15-24	1	DPDT	15A @ 30VDC; 15A @ 120VAC	24VDC	650	37	282191	282191	7.49	6.85	6.29
175573	JVP	LB2-110AS	3	DPDT	12A @ 30VDC; 12A @ 240VAC	110VAC	3,900	28	175531	282191	6.89	6.19	4.95
139740	BTA	BTAT-2C-120VAC	4	DPDT	10A @ 28VDC; 12A @ 120VAC	120VAC	2,250	122	141145	141145	8.95	7.95	6.95
282343	P&B	KRPA-11AG-120	5	DPDT	10A @ 240VAC	120VAC	2,250	17.5	282132	282159	12.79	10.65	9.85
282378	P&B	KRPA-11DG-12	5	DPDT	10A @ 240VAC	12VDC	120	100	282132	282159	11.69	10.49	9.75
282386	P&B	KRPA-11DG-24	5	DPDT	10A @ 240VAC	24VDC	472	51	282132	282159	11.95	10.95	9.95
301073	P&B	KRPA-11DG-110	5	DPDT	10A @ 240VAC	110VDC	10,000	11.5	282132	282159	14.95	13.49	12.15
282247	P&B	K10P-11A15-120	1	DPDT	15A @ 30VDC; 15A @ 120VAC	120VAC	3,900	11	282191	282191	7.55	6.85	6.25
301170	P&B	KRPA-14AY-120	5	3PDT	5A @ 120VAC; 3A @ 240VAC	120VAC	2,250	8.75	282141	282167	24.95	22.49	19.95
282503	P&B	KUP-14D15-24	6	3PDT	10A @ 28VDC or 240VAC	24VDC	472	51	282124	282175	12.29	11.49	10.75
301217	P&B	KRPA-14DN-24	5	3PDT	10A @ 28VDC; 6A @ 250VAC	24VDC	472	51	282141	282167	14.95	13.95	12.95
498072	P&B	KHAU-17D11-6	7	4PDT	3A @ 28VDC; 3A @ 120VAC	6VDC	40	150	496958	282183	6.45	6.05	5.59
282280	P&B	KHAU-17A11-24	7	4PDT	3A @ 120VAC/28VDC (max)	24VAC	160	52	496958	282183	6.95	6.25	5.59
282301	P&B	KHAU-17D11-12	7	4PDT	3A @ 120VAC/28VDC (max)	12VDC	160	100	496958	282183	6.65	6.49	6.19
282319	P&B	KHAU-17D12-24	7	4PDT	5A @ 120VAC/28VDC (max)	24VDC	650	52	496958	282183	6.95	6.55	6.15
291507	JVP	LB4H-120-R	3	4PDT	5A @ 30VDC; 5A @ 240VAC	12VDC	160	75	175557	175557	4.95	4.49	3.95
175602	JVP	LB4H-24DS-R	3	4PDT	5A @ 30VDC; 5A @ 240VAC	24VDC	650	37	175557	175557	5.19	4.69	4.19
175611	JVP	LB4H-110AS-R	3	4PDT	5A @ 30VDC; 5A @ 240VAC	110VAC	3,900	28	175557	175557	4.69	4.59	4.45

\* For sockets see below G = Silver-cadmium oxide, no lamp Y = Silver contacts, no indicator lamp

## CdS Photocells

\* Web Code: CBG

- Generate variable signal based on detection of light levels
- Cadmium Sulfide (CdS)
- Operating temperature: -30°C to +70°C
- Soldering: 230°C for 3 seconds

Applications: Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

Part No.	Cross Ref. No.	Rating		Resistance (Ω)		Size (inches)		Lead Spacing (inches)	Lead Length (inches)	Pricing			
		Vp	mW	Dark	Light	A	B			1	10	100	500
202366	CDS0029001	150	90	300k	4k	0.14	0.17	0.10	1.02	\$1.69	\$1.49	\$1.19	\$0.95
120310	CDS0029004	150	90	2M	27k	0.14	0.17	0.10	1.44	1.45	1.19	1.09	.95
202391	CDS0029203	150	90	10M	5k	0.14	0.17	0.10	1.02	1.49	1.35	1.19	1.09
202382	CDS0029008	150	90	20M	10k	0.14	0.17	0.10	1.02	1.55	1.49	1.35	1.19
202420	CDS0018003	150	100	500k	16k	0.17	0.20	0.13	1.02	.79	.75	.65	.59
202403	CDS0018001	150	100	200k	3k	0.17	0.20	0.13	1.02	.59	.55	.49	.45
202411	CDS0018006	150	100	5M	80k	0.17	0.20	0.13	1.02	.75	.69	.65	.59
202438	CDS0037004	200	150	500k	15k	0.25	0.29	0.20	1.02	1.49	1.35	1.09	.95
120301	CDS0037001	200	150	300k	3k	0.25	0.29	0.20	1.02	1.79	1.59	1.45	1.09
120299	CDS0045001	350	400	300k	8k	0.37	0.43	0.30	1.44	1.79	1.59	1.45	1.29
202454	CDS0045003	350	400	1M	12k	0.37	0.43	0.30	1.44	1.75	1.69	1.49	1.35

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%

Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing		
					1	10	100
207521	NTC-101	100	3100	-3.5	\$4.9	\$3.9	\$3.5
207511	NTC-201	200	3100	-3.5	.49	.39	.35
207483	NTC-102	1k	3800	-4.3	.49	.39	.35
207466	NTC-302	3k	3900	-4.4	.49	.39	.35
207441	NTC-502	5k	3900	-4.4	.49	.39	.35
207037	NTC-103	10k	4100	-4.6	.49	.39	.35
207002	NTC-503	50k	4200	-4.7	.49	.39	.35
206991	NTC-104	100k	4400	-4.9	.49	.39	.35
206982	NTC-1204	200k	4500	-5.1	.49	.39	.35

\* BTA = Beta | JVP = Jameco ValuePro | PAN = Panasonic | P&B = Potter & Brumfield

## CHERRY Reed-Based Magnetic Proximity Sensors

- Hermetically sealed contacts
- Zero power consumption
- Contact resistance: 0.2Ω max.
- Suitable for AC/DC circuits
- Breakdown voltage: 200VDC min.
- SPST NO
- Operating temp. range: -40°C to 105°C
- Max. switching voltage: 175VDC @ 0.5A
- Typical op. time: 0.6ms

Part No.	Mfr.	Part No.	Power	1	10	25
482417	AS201901	10-watt	.....	\$2.95	\$2.65	\$2.39
513359	MP201901	10 watt	.....	2.95	2.65	2.39

## CHERRY Digital Vane Speed & Proximity Sensor

- Operating voltage range: 4.5-24VDC
- Output current: 25mA max.
- Reverse battery protection to -24VDC
- Oper. temp.: -40°C to 85°C
- Open collector output compatible w/ all logic families
- Sensor body material: glass filled polyester
- Output: 3-wire sink

Part No.	Product No.	Termination Pins	Supply Current	1	10	25
577598	VN101503	24AWG x 150mm	6mA max	\$5.95	\$5.35	\$4.79

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Inductive Proximity Switch Sensors

### Cylindrical and Square Styles

★ Web Code: MAX

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output
- Switching frequency: 1.5kHz
- Current consumption: 10mA max.
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- Short-circuit protected
- Pre-tinned pigtail
- Fast response
- LED status indicator
- 6' long cable



Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Dimensions (L x Dia.)	Mounting Hole (in.)	Pricing		
							1	10	25
421147	CS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	2.2" x 0.83"	0.67	\$19.95	\$17.95	\$15.95
421155	CS12-05N-1	NPN	0-0.4mm	12 x 12 x 1	2.4" x 0.88"	0.67	19.95	17.95	15.95
167020	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	21.95	19.75	17.79
248858	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	21.95	19.75	17.79
421219	TS12-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.94	19.95	17.95	15.95
155547	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	11.95	10.95	9.95
421163	CS18-05N-1	NPN	0-0.4mm	18 x 18 x 1	2.1" x 1.10"	0.95	24.95	22.49	19.95
421171	CS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.95	24.95	22.49	19.95
421251	S25-07N-1	NPN	0-5.6mm	25 x 25 x 1	1.4" x 1.50"	0.98	19.95	17.95	15.95
421180	CS30-10N-1	NPN	0-12mm	30 x 30 x 1	2.3" x 1.40"	1.40	32.95	29.95	26.95
421198	CS30-15N-1	—	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	32.95	29.95	26.95
421227	TS30-10N-1	NPN	0-8.0mm	30 x 30 x 1	2.4" x 1.10"	1.10	29.95	24.95	21.95
421235	TS30-15N-1	NPN	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	29.95	24.95	21.95

### Photo Electric Sensors

Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	10	25
421278	WE-M3D*	NPN	0-2.0m	>10-40mm Dia.	2.6" x 0.708"	.710	\$34.95	\$29.95	\$26.95
421286	WE-R3AL†	NPN	0-200mm	—	2.6" x 0.708"	.710	34.95	29.95	26.95
421294	WE-R3BL†	NPN	0-80mm	15-44mm	2.6" x 0.708"	.710	34.95	29.95	26.95
421260	WE-T3AD	NPN	0-5.0mm	≥8mm Dia.	2.6" x 0.708"	0.71	59.95	53.95	47.95

\* Dark-on † Light-on Blue Part No. = Limited Quantity Available



## Hall-Effect Magnetic Proximity Sensor

### With Snap-Fit Mount

- Solid state reliability
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Operating voltage range: 4.75-24VDC
- Output saturation voltage max.: 400mV
- Immune to dust, dirt, & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Output: 3-wire sink
- Reverse polarity protection to -24V

★ Web Code: CCC

Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	Pricing		
							1	10	25
513244	MP101301	4	25	300	60	24AWG x 1m	\$4.95	\$4.49	\$3.95



## Digital Hall-Effect Magnetic Proximity Sensors

### Flange Mount • Applications: door position sensing, flow sensing, pedal switch

- Capable of millions of operations
- Reverse battery protection to -24VDC
- Output saturation voltage max.: 400mV
- Meets IEC529 IPX5 for water protection
- Output wire: 3-wire sink
- Operating voltage range: 4.5-24VDC

★ Web Code: CCC

Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Function	Pricing		
							1	10	25
513252	MP101401	5.2	20	185 (south)	60 (south)	Unipolar switch	\$4.95	\$4.49	\$3.95
513261	MP102103	12	25	300 (north)	195 (north)	Switch	5.95	5.49	4.95

## Pressure Sensors

Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls.

• To convert kPa to PSI: 1kPa = 0.1450377PSI

Part No.	Product No.	Type*	Case Type	Pressure (kPa)	Output	Operating Voltage	Pricing		
							1	10	25
320987	MPX2010DP	D	344C	0-10	25mV	10VDA @ 6mA ..	\$19.95	\$17.95	\$15.95
321293	MPX5050DP	D	867	0-50	4.7V	5VDA @ 7mA ..	24.95	22.49	19.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Actuator Magnet Speed & Proximity Sensors



★ Web Code: MAS

- Aluminum housing
- Adjustable thread mounting stud
- Operating range: -40°C to 150°C

Part No.	Product No.	Pole	1	10
482370	AS101001	South facing	\$4.89	\$4.35
482388	AS101002	North facing	3.65	3.45

## Solid State Digital Position Sensor

- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- Supply volt.: 3.8VDC to 30VDC
- 3-pin SIP package
- Output type: sink
- Output current: 20mA max.
- Output leakage current: 10µA max.
- Oper. point 180 gauss @ 25°C
- Release point 180 gauss @ 25°C
- Supply current: 10mA max.
- Output volt.: 40mV



Part No.	Product No.	Type	1	10	100
1915915	SS466A	Latching	\$0.79	\$0.69	\$0.65

## Cherry Gear Tooth Speed Sensors

- Operating voltage range: 4.5-24VDC
- Output: sink
- Output current: 25mA max.

### Commercial Grade Hall-Effect

- Supply current: 6mA max.
- Barrel length: 1.0"
- Output voltage: 400mV max.
- Thread: 15/32" - 32
- Wire: 20 AWG x 1m
- Reverse battery protection from 24VDC
- Operating temperature range: -40°C to 125°C
- Adjustable aluminum housing

Part No.	Product No.	1	10	25
512401	GS100701	\$19.95	\$18.95	\$17.95

### Industrial Grade Hall-Effect

- M18-1 thread
- Oper. temp.: -40°C to 105°C
- Adjustable steel housing
- Reverse battery protection to -24VDC
- Supply current: 6mA max.
- Output volt.: 700mV
- Barrel length: 65mm
- 12mm circular connector

Part No.	Product No.	1	10	25
512381	GS100201	\$49.95	\$44.95	\$39.95

## Microstructure Pressure Sensor

- Excitation: 10VDC typical
- Linearity: ±0.5%
- Span: 330mV
- Sensitivity: 11mV/psi
- Response time: 1msec.
- Input/output resistance: 5kΩ typical
- Pressure range (psi): 30
- Overpressure (psi): 60 max.
- Gage unamplified, non-compensated flow-through



Part No.	Product No.	1	10
1817004	24PCDFB6G	\$19.49	\$17.75

## Pressure Sensor

- Pressure range: -1.1 to 2.5 PSI
- Operating voltage: 5V @ <10mA
- Max. excitation voltage: 8V
- 1/8" diameter tubing is applicable
- Pressure media: non-corrosive gas
- Pre-calibration of offset volt. & span
- Maximum load pressure: twice rated pressure
- On-chip amplification and temp. compensations
- Volt-level output
- Size: .55"L x .47"W x .20"H



★ Web Code: CBF

Part No.	Product No.	Mfr.	1	10	100
196103	XPFN-025-KPGRNW1	Fujikura	\$12.95	\$11.49	\$9.95





## Magnetic Proximity Sensors

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C

**513279: Aluminum Threaded Housing** • Immune to hostile environments • Suitable for AC/DC circuits  
**513308: Cylindrical Plastic Housing** • Resistant to dirt and moisture

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	Pricing		
							1	10	25
513279	MP200701	SPST NO	10	175	0.5	0.6	\$8.95	\$7.95	\$7.15
513308	MP201701	SPST NO	10	175	0.5	0.5	2.95	2.65	2.39



## Honeywell

## Humidity Sensor

- Linear volt. output vs %RH
- Op. temp.: -40°C to 85°C
- Accuracy (best fit straight line): ±3.5% RH
- Designed specifically for high volume OEM
- Direct input to a controller or other device is made possible by this sensor's linear voltage output
- 3-pin SIP
- High accuracy
- Volt. supply: 4 to 5.8VDC
- Current supply: 500μA max.

\* Web Code: WEG

Part No.	Mfr. Part No.	Description	1	10	100
1860248	HIH-4000-003	0.10" lead pitch SIP w/ calibration & data printout	\$28.55	\$22.85	\$21.65

## CS Series Solid State Hybrid Voltage Sensors

- Power requirements: typically less than 3W
- Continuous duty cycle
- Internal relay contact rating: 10A @ 28VDC resistive; or 120VAC
- Internal contact arrangement: DPDT
- Reverse polarity protection on DC types
- 8-pin octal style plug, plastic dust cover



### Fixed pick-up and adjustable drop-out

- Pick-up voltage: 105
- Drop-out voltage: 90-103
- Max. voltage: 140VAC

Part No.	Product No.	1	10
497491	CSJ-38-71010	\$179.95	\$169.95

### Adjustable pick-up and adjustable drop-out

- Pick-up voltage: 20-30
- Drop-out voltage: 18-28
- Max. voltage: 32VDC

Part No.	Product No.	1	10
497504	CSL-38-30010	\$199.95	\$189.95

## Ambient Light Optical Sensor

A low-cost analog output ambient light photo sensor in a miniature chip LED lead-free surface mount package. It consists of a spectrally suited phototransistor, which peaks in human luminosity curve.

\* Web Code: ZZZ

- Supply voltage: 2.4V to 5.5V
- Oper. temp.: -40°C to 85°C
- Light current ratio: 1.2
- Fall time: 0.8 ms
- Rise time: 0.95 ms
- Dark current: 50mA

Part No.	Product No.	1	10	50
1548511	APDS-9002-021	\$ .95	\$ .89	\$ .79



## 24VDC Liquid Level Sensor

Combine the control box and sensor to activate a water valve. When sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

- Diameter: 1.0"
- Overall Length: 3.9"
- Travel Distance: 2.0"

Part No.	Description	1	10	25
176250	Sensor empty type	\$9.95	\$7.95	\$7.55



## Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case

**136654: Transmit/Receive Set** • Capacitance: 2000pF ±30%  
 • Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40±1.0kHz  
 • Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40±1.0kHz (R=3.9kΩ)

**139492: Transmit/Receive Set** • Capacitance: 2000pF ±20%  
 • Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz  
 • Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)

Part No.	Product No.	Case Size	Lead Length/Spacing	1	10	100
136654	40TR16F	0.47"H x 0.62"Dia.	0.39"	\$7.95	\$6.95	\$5.95
139492	40TR12B	0.30"H x 0.43"Dia.	0.28"	7.95	6.95	5.95

\* Web Code: CAU



## Magnetic Transducers (Speakers)

- Applied voltage: 1/2 duty, square wave

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Volt. Range	Frequency (Hz)	Impedance (Ω)	Sound (dB)	Dimensions (H x Dia.)	Pricing		
										1	10	100
207918	ValuePro	DB1056FPN	1	1.5/30	1 - 2	2048	16	75	.22" x .47"	\$1.19	\$ .95	\$ .79
1537408	Various	QMB-01	3	1.5/15	—	2048	30	80	.53" x .63"	1.25	.95	.79
106500	ValuePro	SBT-1205	2	5/40	3 - 8	2400	38	85	.40" x .48"	1.49	1.35	1.09
138740	ValuePro	DBX05-PN	2	5/40	3 - 8	2400	47	85	.35" x .46"	1.49	1.35	1.19
138722	ValuePro	DB111A-PN	2	1.5/10	1 - 2	2048	50	80	.32" x .46"	1.55	1.39	1.19
673871	ValuePro	PRT-1205	2	5/40	3 - 8	2400	470	90	.35" x .46"	.79	.65	.49
673774	ValuePro	SBT-1612	3	12/40	6 - 18	2048	200	85	.53" x .62"	1.25	.95	.79

\* Web Code: JMT

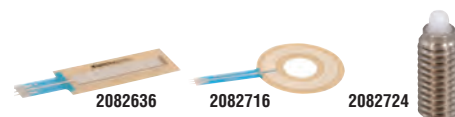
## Flex Sensor



- Max. resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Length: 4.5"
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	Nominal Res.	1	10
150551	Flex sensor	10kΩ	\$12.95	\$11.65

## Membrane Sensors/Potentiometers



Membrane potentiometers are resistive elements or CARBON position feedback sensors with a sealed encasement and a non-conductive simple wiper assembly that connects the top and bottom circuit. By pressing the wiper down on the top circuit to close the connection with the bottom circuit, the linear sensor produces the desired electrical output. The membrane potentiometer can also be actuated through a manual (hand) control. Typical applications are: piston driven motion sensor tracking on chairs or seats, hydraulic motion/tilts, robotics, door & window sensors, medical hand instruments and finger actuated music.

- Thinnest linear stroke sensor: <0.5mmH
- Sealed at IP65
- Simple application
- Ideal for low form factor applications
- Best priced linear stroke sensor on the market

Part No.	Product No.	Description	1	10
2082636	SP7182	50mm	\$12.95	\$11.49
2082652	SP7183	100mm	14.95	13.49
2082679	SP7184	200mm	17.95	15.95
2082708	SP7186	500mm	25.95	23.49
2082716	SP7186	Rotary	14.95	13.49
2082724	WP7688	Wiper	3.49	3.19

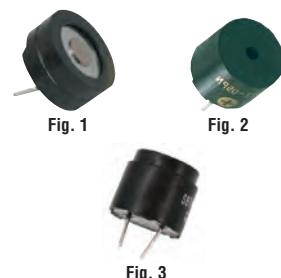
**Need special orders or pricing?**

**Call us at 1-800-831-4242**

## 30mm PCB Mountable Speaker (8Ω)

- Ideal for PC board mounting
- Solder leads
- Pin spacing: 15mm
- Output SPL: 82 dB
- Impedance: 8Ω
- Mylar diaphragm
- Dimensions: 1.2"Dia. x 0.5"D
- Frequency range: 700 - 5000Hz
- Nominal input: 0.15W; max. input: 0.2W

Part No.	Product No.	1	10	100
135722	36MS30008	\$1.95	\$1.75	\$1.49



## Piezo Buzzers (Annunciators)

\* Web Code: JPB

Part No.	Manufacturer	Product No.	Fig.	Tone	Oper. Volt. (V/mA)	Volt. Range	Sound (dB)	Freq. (Hz)	Dimensions (H x Dia.)	Pricing		
										1	10	100
2081246	Shogyo	SEP-2202A5	6	Single	3/11	1.5 - 6	85	3000	16mm x 24mm	\$2.49	\$2.25	\$1.95
335557	ValuePro	MSR320	13	Single	3-20/3-16	3 - 20	80	3400	.39" x .91"	2.75	2.55	2.29
337535	ValuePro	SNP428	15	Single	4-28/3-16	4 - 28	76	2900	.85" x 1.64"	2.49	2.25	1.95
1956696	Velleman	SV4/5-S	8	Single	5/25	3 - 6	87	3200	.30" x .47"	3.65	3.45	3.29
2081959	Floyd Bell	UC-05-515-P	17	Single	5/30	5 - 15	96	2100	1.08" x 1.40"	3.95	3.59	3.19
336989	ValuePro	SC616N	2	Single	6-16/6-22	6 - 16	95	2900	1.28" x 1.69"	1.95	1.75	1.55
1956741	Velleman	SVM06	5	Single	6/20	3 - 7	75	300-500	.91"L x .63"W x .59"H	1.95	1.75	1.55
337210	ValuePro	SC628D	2	Single	6-28/5-18	6 - 28	75	1900	1.25" x 1.69"	2.95	2.65	2.35
196357	Various	AL-175	14	Single	12/5.8	3 - 16	86	4000	.30" x .54"	1.75	1.49	1.25
1956725	Velleman	SV8	6	Single	12/6	3 - 16	85	4000	.30" x .55"	2.45	2.25	1.95
673900	ValuePro	SEP-1172	18	— ↑	12/7	3 - 28	81	3300	16mm x 31.4mm	1.25	.95	.79
138713	ValuePro	32S4120-PN	14	Single	12/7	3 - 16	80	4000	.30" x .54"	2.45	2.25	1.95
336639	ValuePro	SBM616PU	19	— ↑	12/8	3 - 28	90	2900	16mm x 42mm	2.95	2.49	1.95
673926	ValuePro	SEP-2202A	6	Single	12/11	3 - 20	85	3000	16mm x 24.2mm	1.49	1.25	.95
1956688	Velleman	SV4	9	Single	12/12	4 - 15	90	2800	.79" x 1.10"	1.85	1.65	1.55
1956750	Velleman	SVM12	5	Single	12/15	7 - 17	75	300-500	.91"L x .63"W x .59"H	1.95	1.75	1.65
1956670	Velleman	SV2	10	Single	12/15	4 - 15	85	2800	.57" x 1.10"	2.19	2.09	1.95
1956709	Velleman	SV4/12-S	8	Single	12/15	8 - 16	85	3200	.30" x .47"	3.65	3.45	3.25
335927	ValuePro	PK-20A38P	6	Single**	12/15	3 - 24	95	3800	18mm x 23mm	3.39	2.85	2.65
335644	ValuePro	PB-12N23P-12	2	Single	12/50	9 - 15	85	2300	0.38" x 0.47"	1.25	.95	.89
335505	ValuePro	MAS800	12	Single	12/50	9 - 12	103	2800	15.2mm x 26mm	1.95	1.75	1.49
32602	ValuePro	11S3240-R	1	Single	24/15	1 - 27	95	2900	1.4" x 1.7"	4.95	4.45	4.29
1956768	Velleman	SVM24	5	Single	24/20	16 - 30	75	300-500	.91"L x .63"W x .59"H	2.45	2.35	2.19
76021	ValuePro	7S3240-LA	1	Single	24/20	1.5 - 28	95	3200	1.0" x 1.1"	3.95	3.49	2.95
1956733	Velleman	SV10	4	Dual	12/8	3 - 28	90	2900	.79" x 1.10"	8.95	8.59	8.15
1956717	Velleman	SV5	7	Dual	12/8	3 - 28	90	3500	.77" x 1.28"	6.39	6.15	5.79
249498	ValuePro	1103120-LF-TA	1	Dual*	12/25	4 - 16	95	2900	34.5mm x 43.5mm	2.95	2.65	2.39
1956661	Velleman	SV1	11	Dual	12/30	1 - 13	105	2900	1.02" x 1.77"	5.95	5.75	5.45
123538	ValuePro	11D3240	1	Dual*	24/20	4 - 28	80	2900	1.4" x 1.7"	4.19	3.79	3.39
336997	ValuePro	SC616NJ	1	Pulse	6-16/6-22	6 - 16	95	2900	1.28" x 1.69"	4.95	4.49	3.95
337383	ValuePro	SC628P	1	Pulse	6-28/4-16	6 - 28	80	2900	1.84" x 1.69"	4.95	4.49	3.95
335855	ValuePro	PK-12N40P	6	Pulse	12/10	3 - 15	83	4100	8mm x 14mm	3.75	3.35	2.95
336049	ValuePro	PK-27N36W	2	Pulse	12/15	3 - 28	90	3500	10mm x 30mm	2.55	2.19	1.95
335695	ValuePro	PF-20A35EW	3	Fast pulse	12/10	3 - 28	95	3500	.98" x 1.10"	3.55	3.19	2.49
336664	ValuePro	SC105	2	Single	1-5/3-16	1 - 5	75	2900	1.28"H x 1.69"Dia.	1.95	1.75	1.55

\* Continuous or Fast Pulse

\*\* Press fit: Panel hole - 27mm (1.06")

↑ Requires driver circuit

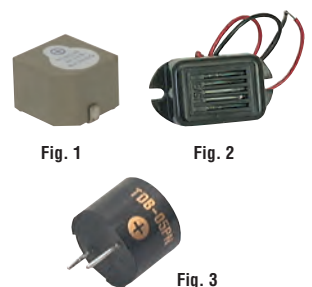


Electromech

## Mechanical/Electromechanical Buzzers

\* Web Code: MEB

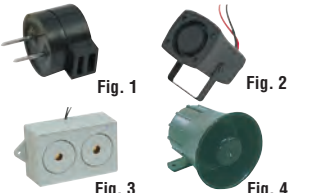
Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
335370	ValuePro	AST200	1	3/80	2 - 5	2731	85	8.7"sq. x 4.2"H	\$1.95	\$1.75	\$1.59
335441	ValuePro	AST800	1	3	2 - 4.5	3200	87	11 W x 14 D x 3.5 H (mm)	3.25	2.95	2.55
140695	ValuePro	63S1120-LA	2	12/25	9 - 15	400	75	1.3"L x 0.7"W x 0.6"H	2.09	1.79	1.29
335345	ValuePro	ASI301	1	5/30	4 - 7	2400	90	.5"L x .5"W x .4"H	.95	.85	.75
335353	ValuePro	ASI401	1	12/30	8 - 15	2400	90	.5"L x .5"W x .4"H	.95	.85	.75
335388	ValuePro	AST500	1	1.5	1.2 - 3	2400	85	.5"L x .5"W x .4"H	.95	.85	.69
76065	ValuePro	TDB05-PN	3	5/30	4 - 7	2300	85	.35"H x .46"Dia.	2.95	2.75	2.55
207985	ValuePro	TDB01	3	1.5/30	1.25 - 2	2300	75	.47"H x .38"Dia.	.95	.89	.79
24872	ValuePro	63S109LA	2	9/30	6 - 12	400	75	1.3"L x 0.7"W x 0.6"H	1.49	1.35	1.19



## Piezo Sirens

\* Web Code: POS

Part No.	Manufacturer	Product No.	Fig.	Oper. Volt. (V/mA)	Voltage Range	Frequency (Hz)	Sound (dB)	Dimensions	Pricing		
									1	10	100
336225	ValuePro	PS-562	1	12/40	5 - 15	2500/3500	100	16mm x 42mm Dia.	\$5.95	\$5.35	\$4.85
207993	ValuePro	SL15R3120LA	2	12/250	6 - 16	3500	105	2.3"L x 1.8"W x 1.6"H	5.95	5.35	4.85
207889	ValuePro	18R3120	3	12/120	9 - 15	1500/3100	105	3.4"L x 2.2"W x 1.3"H	7.95	6.95	6.25
148152	Various	YC-321-1	4	12/300	2 - 12	3000	108	2.5"L x 2.8"Dia	8.95	7.95	6.35



## Piezo Transducers (Speakers)

\* Web Code: JPT

Part No.	Manufacturer	Product No.	Fig.	Rated Voltage	Max. Current	Res Frequency	Sound (dB)	Dimensions (H x Dia.)	Pricing		
									1	10	100
1956784	Velleman	TV4	1	1.5Vp-p	1.5mA	4kHz	75	14mm x 50mm	\$2.95	\$2.85	\$2.69
1956776	Velleman	TV1	2	1.5Vp-p	1.5mA	4kHz	85	6mm x 30mm	1.09	.95	.89
336276	ValuePro	PT-1250W	4	12Vp-p	2mA	4kHz	75	13mm x 30mm	1.89	1.45	1.36
336314	ValuePro	PT-2038FW	3	12Vp-p	3mA	4kHz	80	4.5mm x 24mm	1.39	1.25	.95
2077280	Panasonic	24C411	5	15Vp-p	2mA	4kHz	85	24mm x 6mm	1.49	1.25	.95



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Speakers & Microphone Cartridges

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Flat Element, Square Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

\* Web Code: XAE

Part No.	Product No.	Dimensions (Dia. " x D")	Input		Impedance ( $\Omega$ )	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34025	GSP02-R	1.2 x 0.2	0.4	0.8	8	70	1300 - 8000	1.2 x 0.1	\$2.25	\$1.95	\$1.49
76030	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 - 6000	1.6 x 0.1	1.95	1.49	1.25
673766	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 - 6000	1.9 x 0.1	1.75	1.49	1.19



## Alnico Round, Square and Rectangular Speakers

\* Web Code: EAL

- For computer case use
- Paper diaphragm
- Wide frequency response
- Pre-tinned solder lugs
- Large magnet

Part No.	Product No.	Fig.	Dimensions (Dia. " x D")	Input		Impedance ( $\Omega$ )	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)					1	10	100
135765	RA2425	1	2.2 x 0.8	0.25	0.5	8	87	400 - 4000	0.5 x 0.4	\$1.59	\$1.45	\$1.09
88411	A0200	1	2.0 x 0.8	0.2	0.4	8	87	430 - 4500	0.5 x 0.4	2.29	1.95	1.75
111588	B0102	2	1.7 x 0.6	0.1	0.3	8	83	500 - 5500	0.5 x 0.4	2.29	1.85	1.55
135812	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	8	82	450 - 20000	0.5 x 0.5	4.85	4.09	3.65
2077301	25S9024	1	2.25 x 0.77	0.2	0.2	8	90	450 - 4000	.87 x .77	1.95	1.75	1.55
1954834	NMB-0030	1	1.8 x 0.5	0.5	1.0	8	87	550 - 6000	0.9 x 0.2	2.89	2.69	1.95
2081676	FM009A	2	4.0 x 1.6	15.0	30.0	8	102	900 - 6000	2.75 x 7.3	4.95	4.49	3.95
1950972	I-826-219	4	8.2 x 2.2 x 2.0	1.0	13.0	8	95	30 - 20000	1.5 x 2.8	9.95	7.95	5.95
2081220	TP-252	1	2.6 x 0.875	0.5	1.0	16	89	400 - 4000	.87 x 0.5	2.95	2.49	1.95
1954826	R11-49	2	2.9 x 1.2	0.5	1.0	16	89	300 - 7500	0.9 x 0.4	2.95	2.69	1.95
1954842	609-0033	3	3.6 x 2.0 x 1.5	1.0	3.0	16	89	200 - 3000	0.9 x 0.7	3.49	2.95	2.49
1954851	R-A162	2	4.0 x 1.5	1.0	2.0	16	89	200 - 3500	0.9 x 0.6	3.79	3.39	2.79
307820	UF1082	5	1.73 x 0.275	0.5	1.0	40	80	200 - 6500	0.8 x 0.056	2.95	2.65	2.39

\* Sony LCD plasma replacement speaker (actual size: 6"H x 2.15"W x 1.94"D) \*\* Indoor/outdoor mylar diaphragm (closed back)

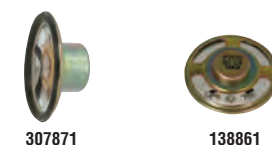
† With wire leads †† Pair of wire leads (2) 11"/10"



## Micro Round Speakers

\* Web Code: TBX

Part No.	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance ( $\Omega$ )	Magnet Size (Dia. " x H")	Output SPL (dB)	Frequency Range (Hz)	Pricing		
			Nom.	Max.					1	10	100
307871	GC0401M	1.57 x 0.67	0.2	0.3	8	0.71 x 0.43	80	600 - 8000	\$1.95	\$1.75	\$1.49
2081191	5000375-00	2.00 x .342	0.2	1.5	8	0.631 x 1.14	85	600 - 3000	1.75	1.49	1.25
1956590	TR-050F-R	2.00 x 0.7	0.5	1.0	16	1.25 x .335	85	500 - 5000	1.95	1.75	1.49
138861	GC0201	0.8 x 0.169	0.1	0.2	32	0.26 x 0.06	78	800 - 7000	1.25	.95	.75
355514	YGD40A-50	1.57 x 0.40	0.5	1.0	50	0.72 x 0.43	89	600 - 5200	2.49	2.25	1.95



## Round Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Paper diaphragm
- Braided copper voice coil leads

Part No.	Manufacturer	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance ( $\Omega$ )	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom.	Max.					1	10	100
320135	Various	C35128A†	2.0 x 0.7	0.2	0.4	8	83	420 - 5000	1.3 x 0.4	\$1.49	\$1.25	\$1.09
135589	Various	FE200	2.0 x 0.7	0.2	0.4	8	83	420 - 5000	1.3 x 0.4	2.45	2.05	1.85
320362	Various	TR-050F	2.0 x 0.7	0.25	0.5	8	86	320 - 4000	1.3 x 0.4	2.55	1.95	1.49
10840	Various	FE201	2.2 x 0.7	0.2	0.4	8	88	400 - 4500	1.3 x 0.4	1.95	1.69	1.55
2081254	Star	FR-05202-01	2.0 x 1.15	3	5	8	85	100 - 5000	1.6 x 0.5	2.49	2.25	1.95
1954800	Regal	R-F163†	3.0 x 1.3	1.5	3.0	16	89	200 - 3000	1.8 x 0.4	2.95	2.69	1.95
2081844	Various	20-220-NSR†	2.0 x 0.7	1	2	50	86	300 - 3000	1.26 x 0.4	2.95	2.69	1.95

† With lead wires

\* Web Code: TAT



## Square Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part No.	Manufacturer	Product No.	Dimensions (Dia. " x D")	Input (W)		Impedance ( $\Omega$ )	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom.	Max.					1	10	100
99996	Various	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 - 14000	1.8 x 0.5	\$2.69	\$2.39	\$2.05
135694	Various	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 - 6000	1.3 x 0.5	1.95	1.79	1.59
1954818	Various	TQ-100F-R	4.0 x 1.4	6.0	8.0	8	97	800 - 10000	1.8 x 0.5	3.95	3.59	2.95
31959	Various	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 - 8000	1.3 x 0.5	2.69	2.39	2.15
249463	Various	66SF25	2.6 x 0.8	0.3	0.5	25	10	320 - 4000	1.3 x 0.5	2.49	2.09	1.59

\* Web Code: EDT



## Omni-directional Electret Condenser Microphone Cartridges

- Modems for computers
  - Used for recording, testing, and monitoring
- Applications: Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

\* Web Code: QBW

Part No.	Manufacturer	Product No.	Sensitivity	Frequency (Hz)	Max. Op. Volt.	Stand Op. Volt.	Max. Current	Sensitivity Reduction	S/N Ratio	Impedance	Terminals	Size (H x Dia.)	Pricing			
													1	10	100	1000
1950948	SPK Electronic	EM-4F-31	-60 $\pm$ 3dB	50-16,000	10VDC	3.0VDC	0.5mA	-3dB @ 3V	>58dB	>2.2k $\Omega$	PC pin leads	.27" x .39"	\$ .89	\$ .79	\$ .69	\$ .59
136574	ValuePro	WM-60PC	-54 $\pm$ 2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3dB @ 3V	>40dB	>2.2k $\Omega$	PC pin leads	.30" x .38"	.95	.89	.75	.59
320179	Various	EM-99	-64 $\pm$ 2dB	20-12,000	12VDC	4.5VDC	0.5mA	-3dB @ 3V	>40dB	>2.2k $\Omega$	PC pin leads	.27" x .39"	.85	.75	.69	.65

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Instrumentation Handles

1954797: Round aluminum black anodized

- 6-32 thread-on
- 1.25" centers (2)
- Size: 1.4"L x 1.0"H x 0.187"D



216821/457801: Oval aluminum

- 10-32 thread-on 3.00" centers (2)
- Size: 3.3"L x 1.3"H x 0.30"D
- 457801: • Size: 3.3"L x 1.0"H x 0.25"D

Part No.	Mfr.	Product No.	1	10	100
1954797	Keystone	9116	\$1.95	\$1.75	\$1.49
216821	Various	8358-1032-B-5	3.95	3.75	3.49
457801	Various	811-0632-A-24	1.95	1.49	.95

## 2" General Duty Rigid Caster

- Polyolefin wheels give mobility to heavy loads on smooth surfaces
- Mounting bracket 3"L x 1-3/4"W
- Impervious to water and resists chemicals
- Long wearing, light weight and non-marking
- 125 lb. load rating per caster • Caster swivels 360°



Part No.	Description	1	10	25
2082169	2-1/2" ground clearance	\$2.25	\$1.95	\$1.75

## Ceramic Donut Magnet

- For science, fridge or projects
- Size: 1.23" Dia. x 0.19" Thick • Center hole: .375" Dia.



Part No.	Product No.	1	10	100
109031	CDM	\$.49	\$.39	\$.25

## PCB Standoff Mounting Hardware

- Snap "on"
- Nylon

★ Web Code: PSF



Part No.	Product No.	Size (in.)	Holes	* Order in multiples of 10	1	10	100
28337	CS1016	1.2L x .6W	.2" .....	* \$1.10	\$1.09		
129252	PCST2	.9L x .4Dia.	.2"/.3" .....	.25	.19	.15	
148056	PCST3	.8L x .5W	.1"/.2" .....	* .09	.07		
292015	SBC-6	.7L x .27Dia.	.1"/.2" .....	* .16	.14		
156831	CS-10	.68L x .32Dia.	.14" .....	* .19	.15		
1582452	1930B	.63L x .28Dia.	.156"/.187" .....	* .15	.12		

## Adhesive Rubber Feet

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly and resist marring and staining on surfaces and give excellent skid and abrasion resistance.

★ Web Code: FAV

Part No.	Mfr. P/N	Type	Fig.	Pack	W" x H"	1	10	50
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	\$6.95	\$5.95	\$5.49
142771	SJ5008BLKC	Black square tapered	2	100	.50 x .12	7.95	5.95	4.95
142682	SJ5018BLKC	Black square tapered	3	100	.50 x .23	10.95	8.95	7.95
126981	SJ5023BLK4	Black square tapered	4	4	.81 x .30	.95	.85	.75
142666	SJ5023BLKC	Black square tapered	4	100	.81 x .30	9.95	8.95	7.95
651891	SJ5201BRN132	Brown hexagon die cut	5	132	.43 x .13	7.25	6.45	5.79
651903	SJ5302CLR96	Clear hemisphere	6	96	.31 x .09	7.95	7.09	5.85
651911	SJ5312CLR56	Clear cylindrical	7	56	.50 x .14	7.95	7.09	6.35
651920	SJ5412WHT56	White cylindrical	7	56	.50 x .14	7.25	6.45	5.79
651938	SJ6553CLR132	Clear hexagonal cone	8	132	.43 x .12	8.15	7.19	6.49
2081385	GB201	100 assorted sizes & types of bumpers & rubber feet				8.95	7.95	6.95

- Zinc-plated steel

**NEW**  
MARKED IN PINK

## Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece multiples	100	1000
38173	2-56	Std	.250	.05	.04	
2094320	2-56	Std	.375	.05	.04	
2094338	2-56	Std	.500	.05	.04	
40952	4-40	Std	.250	.04	.03	
40970	4-40	Std	.375	.04	.03	
106810	4-40	Std	.500	.04	.03	
106543	6-32	Std	.250	.04	.03	
42446	6-32	Std	.375	.04	.03	
42438	6-32	Std	.500	.04	.03	
2094346	8-32	Std	.250	.06	.05	
106817	8-32	Std	.375	.06	.05	
106797	8-32	Std	.500	.06	.05	

## Phillips Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece multiples	100	1000
2094354	2-56	Std	.250	.05	.04	
2094362	2-56	Std	.375	.05	.04	
2094371	2-56	Std	.500	.05	.04	
2094389	4-40	Std	.250	.04	.03	
2094397	4-40	Std	.375	.04	.03	
2094400	4-40	Std	.500	.04	.03	
2094418	6-32	Std	.250	.04	.03	
2094426	6-32	Std	.375	.04	.03	
2094434	6-32	Std	.500	.04	.03	
2094442	8-32	Std	.250	.06	.05	
2094451	8-32	Std	.375	.06	.05	
2094469	8-32	Std	.500	.06	.05	

## Phillips Round Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece multiples	100	1000
2095111	6-32	Std.	.197	.04	.03	
2082978	6-32	Std	.250	.04	.03	

## 4-40 Mounting Angle Brackets

- Material: zinc plated steel
- 1581530: Both holes 4-40 threaded
- 2082581: One hole 4-40 threaded



Part No.	Size (L x H x W)	1	10	100
1581530	.375" x .353" x .25"	\$.29	\$.25	\$.19
2082581	.548" x .506" x .50"	.35	.29	.25

## SAE Hardware

★ Web Code: BAG

### Hex Nuts

Part Number	Screw Size	Thread	Diameter (inches)	100 piece multiples	100	1000
38165	2-56	Std	.183	.03	.02	
40943	4-40	Std	.243	.03	.02	
42420	6-32	Std	.306	.03	.02	
51553	8-32	Std	.344	.03	.02	

### Flat Washers

Part Number	Screw Size	Diameter (inches)	100 piece multiples	100	1000
2094725	2	.188	.03	.02	
211131	4	.237	.035	.025	
106826	4	.281	.04	.03	
106833	6	.373	.04	.03	
106842	8	.375	.05	.04	

### Split Lock Washers

Part Number	Screw Size	Diameter (inches)	100 piece multiples	100	1000
106789	2	.172	.03	.02	
40977	4	.242	.03	.02	
42463	6	.240	.03	.02	
51609	8	.279	.03	.02	

### Internal Tooth Lock Washers

Part Number	Screw Size	Length (inches)	100 piece multiples	100	1000
2094733	2	.200	.05	.04	
106850	4	.258	.05	.04	
106868	6	.277	.05	.04	
106877	8	.323	.05	.04	

### Fender Washers

Part Number	Screw Size	Diameter (inches)	100 piece multiples	100	1000
401146	#10	1	.09	.08	
401154	1/4"	1.25	.09	.08	
401162	5/16"	1.5	.15	.12	
401171	3/8"	1.5	.15	.12	
401189	1/2"	2	.19	.15	

## KEYSTONE Hardware



Part No.	Prod. No.	Description	1	10	100
1581601	1033	PC test point, loop style	\$.25	\$.09	\$.08
1581695	1248	Offset leg screw terminal	.25	.19	.15
1582401	1451B	Hex female standoff, 6-32 thread	.35	.29	.25
1582428	1560A	Swage threaded standoff, 4-40 thread	.35	.29	.25
1581492	415	Aluminum economy spacer, #8 stud	.25	.19	.15
1581572	904	Lockwasher terminal lug, #6 stud	.25	.19	.15
1582410	1520-2	Terminal turret .187"L x .109"Th (mtg hole: .078")	.25	.19	.15

Ⓢ Blue Part No. = Limited Quantity Available

★ More RAF Electronic Hardware Online — Web Code RAF

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

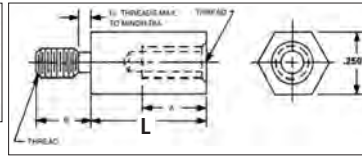
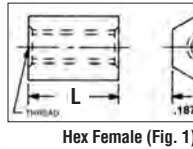
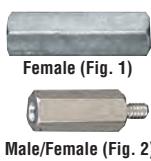
# Threaded Standoffs

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## .187"/.250" Aluminum, Brass & Steel Hex Threaded Standoffs

\* Web Code: TBQ

- Finish:
- 1 Brass (plain)
- 2 Aluminum
- 3 iridite (clear)
- 4 Brass bright tin plate
- 5 Stainless steel
- 6 Brass zinc clear chromate



Hex Female Standoffs

Hex Male/Female (Fig. 2)

### .187" Hex 4-40 Thread (Fig. 1)

Part Number	*Mir.	Product No.	Length of L	Pricing		
				1	10	100
175636	♦	2052-440S0 <sup>+1</sup>	.187"	\$ .25	\$ .19	\$ .15
133613	RAF	2053-440AL7 <sup>2</sup>	.250"	.29	.25	.19
102796	♦	14-552 <sup>3</sup>	.250"	.35	.29	.25
133640	RAF	2057-440AL7 <sup>2</sup>	.500"	.39	.35	.25
139792	RAF	2058-440AL7 <sup>2</sup>	.563"	.29	.25	.19
133648	RAF	2059-440AL7 <sup>2</sup>	.625"	.29	.25	.19
133656	RAF	2061-440AL7 <sup>2</sup>	.750"	.39	.35	.29
139185	RAF	2065-440AL7 <sup>2</sup>	1.00"	.55	.49	.35

### .250" Hex 6-32 Thread (Fig. 1) (Continued)

Part Number	*Mir.	Product No.	Length of L	Pricing		
				1	10	100
393811	RAF	2120-632B12 <sup>5</sup>	1.50"	\$ .75	\$ .69	\$ .65
143441	RAF	2124-632AL7 <sup>2</sup>	1.75"	.79	.69	.55
387487	RAF	2136-632A7 <sup>2</sup>	3.00"	2.35	2.09	1.89
387495	RAF	2140-632A7 <sup>2</sup>	4.00"	2.49	2.25	1.95
387508	RAF	2144-632A7 <sup>2</sup>	5.00"	2.79	2.49	2.25
387516	RAF	2148-632A7 <sup>2</sup>	6.00"	3.19	2.85	2.55
387524	RAF	2152-632A7 <sup>2</sup>	7.00"	3.49	3.15	2.85
387532	RAF	2156-632A7 <sup>2</sup>	8.00"	3.49	3.15	2.85
387541	RAF	2160-632A7 <sup>2</sup>	9.00"	3.49	3.15	2.85
387559	RAF	2164-632A7 <sup>2</sup>	10.0"	3.95	3.55	3.19

### .250" Hex 4-40 Thread (Fig. 1)

Part Number	*Mir.	Product No.	Length of L	Pricing		
				1	10	100
139193	RAF	2100-440A7 <sup>2</sup>	.250"	\$ .25	\$ .19	\$ .15
393685	RAF	2100-440B12 <sup>5</sup>	.250"	.25	.19	.15
1944353	♦	4-40BHEX <sup>1</sup>	.250"	.45	.39	.25
77501	RAF	2102-440AL7 <sup>2</sup>	.375"	.29	.25	.19
393693	RAF	2102-440B12 <sup>5</sup>	.375"	.59	.55	.35
134763	RAF	2103-440AL7 <sup>2</sup>	.437"	.39	.35	.19
393705	RAF	2103-440B12 <sup>5</sup>	.437"	.29	.25	.19
108371	RAF	2104-440AL7 <sup>2</sup>	.500"	.45	.39	.25
393713	RAF	2104-440B12 <sup>5</sup>	.500"	.59	.55	.35
77519	RAF	2106-440AL7 <sup>2</sup>	.625"	.49	.45	.25
393721	RAF	2106-440B12 <sup>5</sup>	.625"	.39	.35	.29
133605	RAF	2108-440AL7 <sup>2</sup>	.750"	.45	.39	.25
393731	RAF	2108-440B12 <sup>5</sup>	.750"	.79	.69	.65
1944370	♦	.2504-40BHEX <sup>1</sup>	.750"	.75	.69	.35
139205	RAF	2112-440A7 <sup>2</sup>	1.00"	.29	.25	.19
393749	RAF	2112-440B12 <sup>5</sup>	1.00"	.79	.69	.55
387399	RAF	2144-440A7 <sup>2</sup>	5.00"	2.75	2.45	2.19
387401	RAF	2148-440A7 <sup>2</sup>	6.00"	2.95	2.65	2.39
387428	RAF	2152-440A7 <sup>2</sup>	7.00"	3.29	2.95	2.65
387444	RAF	2156-440A7 <sup>2</sup>	8.00"	3.49	3.15	2.85
387452	RAF	2160-440A7 <sup>2</sup>	9.00"	3.49	3.15	2.85
387461	RAF	2164-440-A7 <sup>2</sup>	10.0"	3.95	3.55	3.19

### .250" Hex 6-32 Thread (Fig. 1)

Part Number	*Mir.	Product No.	Length of L	Pricing		
				1	10	100
77535	RAF	2100-632AL7 <sup>2</sup>	.250"	\$ .29	\$ .25	\$ .19
393757	RAF	2100-632B12 <sup>5</sup>	.250"	.25	.19	.15
1582398	♦	6-32BHEX <sup>1</sup>	.250"	.29	.25	.19
133591	RAF	2102-632A7 <sup>2</sup>	.375"	.29	.25	.19
1582400	♦	6-32BHEX <sup>1</sup>	.375"	.35	.29	.25
77543	RAF	2104-632AL7 <sup>2</sup>	.500"	.29	.25	.19
393772	RAF	2104-632B12 <sup>5</sup>	.500"	.69	.59	.35
77552	RAF	2106-632AL7 <sup>2</sup>	.625"	.45	.39	.25
393781	RAF	2106-632B12 <sup>5</sup>	.625"	.39	.35	.29
77570	RAF	2108-632AL7 <sup>2</sup>	.750"	.45	.39	.25
393799	RAF	2108-632B12 <sup>5</sup>	.750"	.45	.39	.35
77578	RAF	2112-632AL7 <sup>2</sup>	1.00"	.49	.45	.29
1944388	♦	.250.6-32BHEX <sup>1</sup>	1.00"	.45	.39	.35
143407	RAF	2120-632A7 <sup>2</sup>	1.50"	.59	.55	.39

### .250" Hex 8-32 Thread (Fig. 1)

Part Number	*Mir.	Product No.	Length of L	Pricing		
				1	10	100
387567	RAF	2100-832A7 <sup>2</sup>	.250"	\$ .25	\$ .19	\$ .15
387575	RAF	2102-832A7 <sup>2</sup>	.375"	.25	.19	.15
387591	RAF	2106-832A7 <sup>2</sup>	.625"	.35	.29	.25
387604	RAF	2108-832A7 <sup>2</sup>	.750"	.39	.35	.29
387639	RAF	2124-832A7 <sup>2</sup>	1.75"	1.95	1.75	1.55
387655	RAF	2136-832A7 <sup>2</sup>	3.00"	2.29	2.05	1.85
387663	RAF	2140-832A7 <sup>2</sup>	4.00"	2.49	2.25	1.95
387671	RAF	2144-832A7 <sup>2</sup>	5.00"	2.75	2.45	2.19
387680	RAF	2148-832A7 <sup>2</sup>	6.00"	2.95	2.65	2.39
387698	RAF	2152-832A7 <sup>2</sup>	7.00"	3.49	3.15	2.85
387701	RAF	2156-832A7 <sup>2</sup>	8.00"	3.49	3.15	2.85
387719	RAF	2160-832A7 <sup>2</sup>	9.00"	3.49	3.15	2.85
387727	RAF	2164-832A7 <sup>2</sup>	10.0"	3.95	3.55	3.19

### .250" Hex 10-32 Thread (Fig. 1)

Part Number	*Mir.	Product No.	Length of L	Pricing		
				1	10	100
387735	RAF	2100-1032A7 <sup>2</sup>	.250"	\$1.19	\$1.05	\$ .95
387743	RAF	2102-1032A7 <sup>2</sup>	.375"	1.19	1.05	.95
387778	RAF	2108-1032A7 <sup>2</sup>	.750"	1.59	1.45	1.29
387807	RAF	2124-1032A7 <sup>2</sup>	1.75"	1.95	1.75	1.59
387831	RAF	2140-1032A7 <sup>2</sup>	4.00"	2.49	2.25	1.95
387840	RAF	2144-1032A7 <sup>2</sup>	5.00"	2.75	2.45	2.19
387858	RAF	2148-1032A7 <sup>2</sup>	6.00"	2.95	2.65	2.39
387866	RAF	2152-1032A7 <sup>2</sup>	7.00"	3.49	3.15	2.85
387874	RAF	2156-1032A7 <sup>2</sup>	8.00"	3.49	3.15	2.85
387882	RAF	2160-1032A7 <sup>2</sup>	9.00"	3.95	3.59	3.25
387891	RAF	2164-1032A7 <sup>2</sup>	10.0"	3.95	3.55	3.19

## .250" Round Threaded Standoffs

\* Web Code: TBQ

- Aluminum or Brass † Finish: Iridite (clear); <sup>1</sup> per MIL-C-5541-D; <sup>2</sup> brass (plain)

### .250" Round 4-40 Thread Female

Part Number	*Mir.	Metal†	Length	Pricing		
				1	10	100
1945102	♦	Alum <sup>1</sup>	.250"	\$ .45	\$ .39	\$ .25
1944468	♦	Brass <sup>2</sup>	.250"	.29	.25	.19
1944530	♦	Alum <sup>1</sup>	.375"	.25	.19	.15
1944564	♦	Alum <sup>1</sup>	.500"	.35	.29	.25
1944476	♦	Brass <sup>2</sup>	.500"	.45	.39	.25
1945129	♦	Alum <sup>1</sup>	.750"	.49	.45	.25
1944484	♦	Brass <sup>2</sup>	.750"	.65	.59	.39
1944599	♦	Alum <sup>1</sup>	1.00"	.55	.49	.39

### .250" Round 6-32 Thread Female

Part Number	*Mir.	Metal†	Length	Pricing		
				1	10	100
1944610	♦	Alum <sup>1</sup>	.250"	\$ .25	\$ .19	\$ .15
1944492	♦	Brass <sup>2</sup>	.250"	.29	.25	.19
1944628	♦	Alum <sup>1</sup>	.375"	.25	.19	.15
1944505	♦	Brass <sup>2</sup>	.375"	.29	.25	.19
1945145	♦	Alum <sup>1</sup>	.500"	.39	.35	.29
1944521	♦	Brass <sup>2</sup>	.500"	.45	.39	.25
1944644	♦	Alum <sup>1</sup>	.750"	.45	.39	.25
1944652	♦	Alum <sup>1</sup>	1.00"	.59	.55	.35



\* RAF = RAF Electronic Hardware | KEY = Keystone | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted Pan Head Screws **SAVE \$173**

100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	#2	#2	#2	2-56 x 1/4, 1/2
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/4, 1/2
Part No.	Description	Wt. (lbs.)	1	5	
108433	2700 pcs. Hardware kit	7.5	\$99.95	\$89.95	



## Aluminum & Brass Round Spacers

• Finish: 1 = Aluminum iridite clear 2 = Brass zinc clear chromate • ID (Internal Diameter): #4 = .115"; #6 = .140" Blue P/N = Limited Quantity Available

### 3/16" Outer Diameter

Part No.	Product No.	Length	ID	1	10	100
392956	1107-4-B-12 <sup>2</sup>	1/8"	#4	\$ .35	\$ .29	\$ .25
392964	1108-4-B-12 <sup>2</sup>	3/16"	#4	.35	.29	.25
392972	1109-4-B-12 <sup>2</sup>	1/4"	#4	.35	.29	.25
392981	1110-4-B-12 <sup>2</sup>	5/16"	#4	.35	.29	.25
392893	1111-4-AL-7 <sup>1</sup>	3/8"	#4	.29	.25	.19
392999	1111-4-B-12 <sup>2</sup>	3/8"	#4	.35	.29	.25
393001	1112-4-B-12 <sup>2</sup>	7/16"	#4	.39	.35	.29
393019	1113-4-B-12 <sup>2</sup>	1/2"	#4	.39	.35	.29
393027	1115-4-B-12 <sup>2</sup>	5/8"	#4	.45	.39	.35
392930	1116-4-A-7 <sup>1</sup>	11/16"	#4	.39	.35	.29
393035	1116-4-B-12 <sup>2</sup>	11/16"	#4	.45	.39	.35
393043	1117-4-B-12 <sup>2</sup>	3/4"	#4	.45	.39	.35

### 1/4" Outer Diameter

\* Order in multiples of 10

Part No.	Product No.	Length	ID	1	10	100
393158	1122-4-B-12 <sup>2</sup>	1/8"	#4	\$ .25	\$ .19	\$ .15
393352	1122-6-B-12 <sup>2</sup>	1/8"	#6	*	.19	.15

### 1/4" Outer Dia. (Continued)

Part No.	Product No.	Length	ID	1	10	100
393061	1123-4-AL-7 <sup>1</sup>	3/16"	#4	\$ .25	\$ .19	\$ .15
393166	1123-4-B-12 <sup>2</sup>	3/16"	#4	.25	.19	.15
393369	1123-6-B-12 <sup>2</sup>	3/16"	#6	.25	.19	.15
393272	1124-6-AL-7 <sup>1</sup>	1/4"	#6	.25	.19	.15
393377	1124-6-B-12 <sup>2</sup>	1/4"	#6	.25	.19	.15
393086	1125-4-A-7 <sup>1</sup>	5/16"	#4	.25	.19	.15
393182	1125-4-B-12 <sup>2</sup>	5/16"	#4	.25	.19	.15
393290	1125-6-AL-7 <sup>1</sup>	5/16"	#6	.25	.19	.15
393385	1125-6-B-12 <sup>2</sup>	5/16"	#6	.25	.19	.15
393095	1126-4-A-7 <sup>1</sup>	3/8"	#4	.25	.19	.15
393191	1126-4-B-12 <sup>2</sup>	3/8"	#4	.25	.19	.15
393297	1126-6-A-7 <sup>1</sup>	3/8"	#6	.29	.25	.19
393393	1126-6-B-12 <sup>2</sup>	3/8"	#6	.25	.19	.15
393203	1127-4-B-12 <sup>2</sup>	7/16"	#4	.25	.19	.15
393300	1127-6-A-7 <sup>1</sup>	7/16"	#6	.25	.19	.15

## Thumbscrews

Fig. 1  
393976



Fig. 2  
394071



Aluminum Blue P/N = Limited Quantity

Part No.	Product No.	Fig.	Thread	Thread Length	Length	1	10	100
393976	7100-A <sup>1</sup>	1	4-40	5/16"	5/8"	\$ .95	\$ .75	\$ .65
393992	7105-AL <sup>1</sup>	1	6-32	1/2"	13/16"	.95	.75	.65
394004	7106-A <sup>1</sup>	1	8-32	3/8"	11/16"	.95	.75	.65
394011	7107-A <sup>1</sup>	1	10-32	1/2"	13/16"	.95	.75	.65
394063	7125-A <sup>1</sup>	2	6-32	3/8"	9/16"	.95	.75	.65
394071	7128-A	2	8-32	3/8"	9/16"	.95	.75	.65
394089	7135-A	2	10-32	1/2"	11/16"	.95	.75	.65
394097	7138-A	2	1/4"-20	1/2"	3/4"	.95	.75	.65

\* Web Code: TBQ



### 1/4" Outer Dia. (Continued)

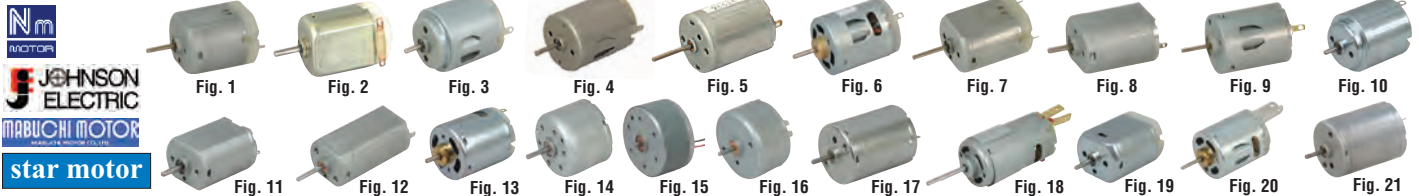
Part No.	Product No.	Length	ID	1	10	100
393406	1127-6-B-12 <sup>2</sup>	7/16"	#6	\$ .29	\$ .25	\$ .19
393115	1128-4-A-7 <sup>1</sup>	1/2"	#4	.39	.35	.29
393211	1128-4-B-12 <sup>2</sup>	1/2"	#4	.29	.25	.19
393319	1128-6-A-7 <sup>1</sup>	1/2"	#6	.35	.29	.25
393414	1128-6-B-12 <sup>2</sup>	1/2"	#6	.29	.25	.19
393123	1133-4-A-7 <sup>1</sup>	13/16"	#4	.29	.25	.19
393220	1133-4-B-12 <sup>2</sup>	13/16"	#4	.35	.29	.25
393326	1133-6-A-7 <sup>1</sup>	13/16"	#6	.29	.25	.19
393422	1133-6-B-12 <sup>2</sup>	13/16"	#6	.35	.29	.25
393131	1134-4-A-7 <sup>1</sup>	7/8"	#4	.29	.25	.19
393238	1134-4-B-12 <sup>2</sup>	7/8"	#4	.39	.35	.29
393335	1134-6-A-7 <sup>1</sup>	7/8"	#6	.29	.25	.19
393431	1134-6-B-12 <sup>2</sup>	7/8"	#6	.45	.39	.35
393140	1136-4-A-7 <sup>1</sup>	1.0"	#4	.29	.25	.19
393246	1136-4-B-12 <sup>2</sup>	1.0"	#4	.45	.39	.35
393449	1136-6-B-12 <sup>2</sup>	1.0"	#6	.45	.39	.35

Electromech

JAMECO ReliaPro

## 1.5VDC – 24VDC Motors

\* Web Code: FBN



Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (ins.)	Shaft Length (ins.)	Size (ins.) (Dia. x Depth)	Pricing		
						Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231917	ReliaPro	FE-260-2670	10	1.5	1.5-3	0.66	3700	10.5	42.9	0.12"/solder	0.078	0.314	0.937 x 1.063	\$1.25	\$1.09	\$ .99
238465	ReliaPro	RF-310TA-11400 (CW)	14	2.5	1-6	0.06	2190	3.3	75.0	0.05"/solder	0.078	0.70	0.962 x 0.712	2.95	2.65	2.39
238458	ReliaPro	RF-300CA-11400 (CW)	15	3	1-6	0.065	2400	4.3	56.4	3" wires	0.078	0.19	0.96 x 0.491	3.95	3.49	2.95
1950930	ReliaPro	RF-300CA-11400-22	15	3	1-2-6	0.073	2970	3.8	55.0	3" wires	0.078	0.22	0.96 x 0.489	3.95	3.49	2.95
154915	Star Motor	ST130-12240-38	2	3	1.5-3	0.17	3588	7.4	55.0	0.09"/solder	0.08	0.37	0.79 x 1.13	1.45	1.29	1.15
1939589	Mabuchi Motor	FF-130RH-15210	1	3	1-4	0.17	4280	5.8	50.0	0.08"/solder	0.08	0.24/0.21	0.79 x 0.98	.95	.85	.75
1951449	ReliaPro	QJT-260-18130	10	3	1.5-4.5	0.46	4780	10.0	40.0	0.12"/solder	0.078	0.314	0.944 x 1.071	1.55	1.39	1.25
231925	ReliaPro	FE-260-2295	10	3	1.5-4.5	0.63	6850	14	53.9	0.12"/solder	0.078	0.314	0.937 x 1.063	1.55	1.39	1.25
154923	Star Motor	ST-130-22770	2	3	1.5-3	1.150	12500	10.3	40.0	0.09"/solder	0.08	0.37	0.79 x 1.13	1.45	1.29	1.15
2078231	Sun Motor	18-2760	3	3	1.5-3	0.35	13800	18.5	—	0.11"/solder	0.08	0.25	0.93 x 1.07	.99	.79	.59
211246	Mabuchi Motor	RC-260RA-2670	3	4.5	3-4.5	1.430	15290	21.8	53.0	0.11"/solder	0.08	0.28	0.93 x 1.06	1.25	1.09	.95
238511	Mabuchi Motor	RF-500TB-12560	16	6	1.5-12	0.08	2180	11.6	50.6	0.08"/solder	0.078	0.385	1.259 x 0.767	3.95	3.49	2.75
231829	ReliaPro	PC-260-16210	19	6	3-12	0.28	4260	18	47.6	0.08"/solder	0.078	0.433	0.944 x 1.200	2.49	2.25	1.95
231781	ReliaPro	PC-130F-12240	11	6	3-9	0.25	6800	7	33.4	0.08"/solder	0.078	0.377	0.803 x 0.984	1.95	1.75	1.59
232144	ReliaPro	FF-050S-11170	12	7	1.5-9	0.17	8500	7	51.3	0.08"/solder	0.059	0.433	0.61 x 1.059	2.95	2.65	2.39
177498	Mabuchi Motor	RC280RA-2485	4	7.2	3-14	1.180	14260	33.3	57.0	0.11"/solder	0.08	0.43	0.95 x 1.20	2.25	1.95	1.75
2095533	Mabuchi Motor	RK-270SH-16175	21	9	4.5-18	0.370	6320	32.5	—	0.08"/solder	0.08	0.344	0.96 x 1.21	2.49	2.25	1.95
231802	ReliaPro	PC-130F-10370	11	9	6-12	0.15	6410	8.5	43.9	0.08"/solder	0.078	0.377	0.803 x 0.984	1.95	1.75	1.59
1955669	Canon	DN26-T41NIB	8	12	4-12	0.25	2200	34.33	—	0.11"/solder	0.08	0.30	1.01 x 1.00	1.19	.99	.79

Continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# DC Motors & Reversible Gear Head Motors

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ReliaPro

## 1.5VDC – 24VDC Motors (Continued)

See pg 107 for figures

\* Web Code: FBN

Part No.	Manufacturer	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (ins.)	Shaft Length (ins.)	Size (ins.) (Dia. x Depth)	Pricing		
						Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
174693	Johnson Electric	21226-384221	5	12	9-14	0.015	3000	85.06	—	0.11"/solder	0.08	0.69	0.97 x 1.19	\$2.95	\$2.65	\$2.39
232013	ReliaPro	MD5-12160	13	12	12-24	0.30	4000	34.3	39.1	0.12"/solder	0.091	0.622	1.082 x 1.279	2.25	1.95	1.75
231732	ReliaPro	PC-130SF-09480	11	12	6-24	0.11	4800	12.3	49.6	0.08"/solder	0.078	0.377	0.803 x 0.984	2.35	2.09	1.85
238473	ReliaPro	RF-370CA-15370	17	12	3-12	0.17	4840	187	75.0	0.08"/solder	0.078	0.346	0.960 x 1.213	5.45	4.95	4.25
206949	Nichibo	QJT360S14280	6	12	9-30	0.35	4930	44.5	52.0	0.11"/solder	0.09	0.45	1.09 x 1.30	2.95	2.75	2.25
667411	ReliaPro	HRF-370CA-12V	7	12	6-15	0.13	5100	20.0	64.0	0.08"/quick conn.	0.08	0.523	0.960 x 1.20	1.95	1.75	1.49
231750	ReliaPro	PC-130SF-09400	11	12	6-24	0.15	5130	14.3	42.5	0.08"/solder	0.078	0.377	0.803 x 0.984	1.75	1.59	1.39
2081908	Mabuchi Motor	FK260SA-10400	1	12	0-15	0.13	5330	16.33	58.4	0.08"/solder	0.08	0.474	0.952 x 1.06	1.49	1.35	1.19
231896	ReliaPro	FE-260-08450	10	12	6-12	0.11	5560	10.3	46.6	0.12"/solder	0.078	0.314	0.937 x 1.063	1.29	1.15	.99
232005	ReliaPro	UC-280S-19160	11	12	6-12	0.57	9000	46.6	63.4	0.08"/solder	0.078	0.433	0.944 x 1.200	2.55	2.29	1.95
1586031	Mabuchi Motor	FK-260SA	1	12	12-24	0.027	5800	14.8	55.0	0.08"/solder	0.08	0.42	0.96 x 1.06	1.25	1.09	.95
2081895	Mabuchi Motor	FC-280ST-18180	1	12	8-15	0.69	7880	54.3	59.08	Wire push-in	0.08	0.45	0.945 x 1.32	1.49	1.25	.99
1810099	Mabuchi Motor	FK260SA (14280)	1	12	12-24	0.063	8600	14.8	55.0	0.08"/solder	0.08	0.43	0.96 x 1.06	.99	.89	.79
1586058	Mabuchi Motor	FK130RH-10450	8	12	6-18	0.036	9750	8.9	45.0	0.08"/solder	0.08	0.31	0.80 x 0.99	1.25	1.09	.95
232040	ReliaPro	MD5-2070	13	12	6-12	1.20	12150	62.2	54.1	0.12"/solder	0.091	0.622	1.082 x 1.279	2.25	1.95	1.75
232022	ReliaPro	MD5-1885	13	12	6-18	0.74	9820	53.5	60.7	0.11"/solder	0.091	0.622	1.082 x 1.279	2.95	2.65	2.29
1708351	Nichibo	KD35FN-6531FB	4	12	9-15	1.1	13500	2259	43.0	0.15"/quick conn.	0.128	0.643	15.0 x 2.4	2.95	2.65	2.25
232047	ReliaPro	MD5-2445	13	12	6-12	2.05	19850	79.7	66.0	0.12"/solder	0.091	0.622	1.082 x 1.279	2.55	2.29	1.95
2082177	Johnson Electric	H615-66430	9	13.5	5.0-13.5	1.44	18300	40.6	68.4	0.11"/solder	0.124	0.75	1.4 x 2.23	2.95	2.65	2.39
2082185	Johnson Electric	H615-65050	9	13.6	5.0-13.6	1.44	4575	99.2	—	0.11"/solder	0.124	0.65	1.4 x 1.96	2.49	2.25	1.95
137412	Johnson Electric	3E3151A3	4	14.4	—	1.84	22300	70.8	76.0	20" wires	0.125	0.35	1.40 x 1.96	2.25	1.95	1.75
232101	ReliaPro	MD5-1980AS-AA	20	24	12-24	1.43	22600	88.5	60.9	0.24"/solder	0.091	0.512	1.083 x 1.279	3.95	3.55	2.95
1586023	Mabuchi Motor	RK370C	5	24	12-30	0.15	3850	19.3	60.0	0.08"/solder	0.08	0.67	0.96 x 1.21	1.75	1.49	1.19
1586040	Mabuchi Motor	RS365PH-112240	9	24	9-28	0.07	10700	411	62.5	0.11"/solder	0.09	0.49	1.08 x 1.28	2.95	2.65	2.39
137614	Johnson Electric	684823A	4	24	—	0.10	2300	78	61.0	0.8"/quick conn.	0.125	0.53	1.40 x 1.96	2.25	1.95	1.75

### Hi-Torque

237391	ReliaPro	29SYT003	18	13.5	13.5	13	18000	509	—	Quick connect	0.125	1.003	1.141 x 2.283	\$6.25	\$5.59	\$4.95
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JAMECO ReliaPro

## 6, 12 & 24VDC Reversible Gear Head Motors

\* Web Code: KBB

- Solder-type terminal
- High torque construction
- Dielectric strength: 300VDC
- Insulation resistance: 10MΩ
- Oil bearing design for long service life

### 32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (ins.)	Motor Size Dia. x Depth (ins.)	Shaft Size Dia. x Length (ins.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	25
253403	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	\$19.95	\$17.95	\$15.95
253323	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	14.95	13.49	11.95
253307	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.9	.30 x .70	19.95	17.95	15.95

### 38GM Series

253534	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	\$21.95	\$19.75	\$17.75
253526	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	18.95	16.95	15.35
253518	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	18.95	16.95	15.35
253500	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	19.95	17.95	15.95
253497	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	19.95	17.95	15.95
253489	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	18.95	16.95	15.35
253471	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	14.95	13.45	11.95
253446	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	.20 x .50	21.95	19.75	17.75

### GH35GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (ins.)	Motor Size Dia. x Depth (ins.)	Shaft Size Dia. x Length (ins.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	25
155012	GH12-1926	12	4.5 – 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.75	\$17.75
155821	GH12-1830Y-P	12	4.5 – 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	22.95	20.65	18.55
155839	GH12-1641T-L	12	3.0 – 12	250	20	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	25.95	23.35	20.95
152911	GH12-1926Y	12	4.5 – 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	24.95	22.45	19.95
155855	GH12-1641T-F	12	3.0 – 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	24.95	22.45	19.95
151441	GH12-1632TL	12	4.5 – 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	19.75	17.75
155863	GH12-1926Y-F	12	4.5 – 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	24.95	22.45	19.95
161374	GH12-1345T	12	4.5 – 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.55	19.45
161382	GH12-1634T	12	4.5 – 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.75	17.75
164786	GH12-1640Y	12	4.5 – 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	28.95	25.95	22.95
176050	GH12-1640Y00	24	12 – 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	22.95	20.49	18.49
11799	CB5M-24	24	6 – 24	110	14.6	1800	—	1.3 x 1.0	1.4 x 1.1	.196 x .375	11.95	10.75	9.49
176032	GH24-1640Y06	24	12 – 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	24.95	22.45	19.95
176023	GH24-1640Y19	24	12 – 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	24.95	22.45	19.95

JAMECO EXCLUSIVE



253307

32GM Series



253446

38GM Series



155012

GH35GM Series

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

JAMECO ReliaPro

## 6, 12 & 24VDC Reversible Gear Head Motors (Continued)

- Solder-type terminal
- High torque construction
- Dielectric strength: 300VDC
- Insulation resistance: 10MΩ
- Oil bearing design for long service life

### GH30GM Series

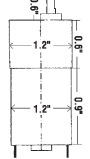
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	® Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (ins.)	Motor Size Dia. x Depth (ins.)	Shaft Size Dia. x Length (ins.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	25
153438	GH12-1045Y <sup>®</sup>	12	3.0 – 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	\$18.95	\$16.95	\$15.25
170642	GH12-1828Y-10 <sup>®</sup>	12	6.0 – 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	26.95	24.25	21.95
159418	GH12-1921Y <sup>®</sup>	12	4.5 – 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	25.95	23.25	20.95
162191	GH12-1324Y225 <sup>®</sup>	12	4.5 – 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	17.95	15.95	14.35

JAMECO EXCLUSIVE

★ Web Code: KBB



159418  
GH30GM Series

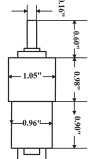


### HN27GD Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (ins.)	Motor Size Dia. x Depth (ins.)	Shaft Size Dia. x Length (ins.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	25
167039	GH12-0953Y	12	4.5 – 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	\$18.95	\$16.95	\$15.25
249480	GH12-1213Y7-0	12	4.5 – 24	51	90	460	70:1	0.3 x 0.6	1.0 x 0.9	.16 x .60	19.95	18.95	17.95
167047	GH12-1828Y	12	4.5 – 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	.16 x .60	23.95	21.55	19.45



167039  
HN27GD Series



## 120VAC Gear Motor

6.0 RPM - 2.9 Watt

- Operating voltage: 120VAC @ 60Hz
- Shaft dia./length: 0.27" x 0.65"
- Size: 2.0"D x 1.0"L
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor

★ Web Code: KBB



Part No.	Product No.	1	10	25
213488	SOTYZ-R	\$14.95	\$13.45	\$11.95

SOLARBOTICS

## Gear Head Motor

- Gear ratio: 143:1
- Current @ 6V: 57mA
- RPM @ 6V: 80
- Stall current @ 6V: 633mA
- Stall torque @ 6V: 59.26 in. oz.
- Size: 2.2" L x 1.9" W x 0.9" H



Part No.	Product No.	1	10	25
400995	GM8	\$8.75	\$7.75	\$6.95

JAMECO ReliaPro

## 1.3VDC & 3VDC Vibrating Motors

- Typical applications: cellular phones, pagers and toys



Fig. 1

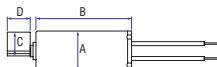


Fig. 1



Fig. 2



Fig. 3

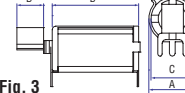


Fig. 3



Fig. 4

Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (ins.)	Motor Size (A x B) (Dia. x Depth)	Shaft Size (C x D) (Dia. x Length)	Pricing		
									1	10	100
175062	OTL-7AL+	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$4.55	\$3.95	\$3.69
256357	72K642	2	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	3.49	2.95	2.65
175396	OTL-4AL+	4	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.75	0.16 x 0.55	0.15 x 0.23	4.75	4.25	3.85
256306	62K003	2	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.35	2.95	2.65
256322	62K211	3	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC terminal	0.27 x 0.48	0.11 x 0.11	2.75	2.49	2.25
256365	72K692	2	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256382	72K681	2	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256314	62K053	2	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.25	2.95	2.65
256331	62K261	3	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC terminal	0.27 x 0.48	0.11 x 0.11	3.25	2.95	2.65

JAMECO EXCLUSIVE

★ Web Code: NBC

## Multi-Stepper Motor Control Board

- Current-mode coil driver up to 2A/45V
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- High-speed serial communication interface 9.6kbps-230.4kbps
- Linear acceleration/deceleration capability up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- 26 digital I/O and two SPI interfaces for control of external devices



Shown w/ motors - not included

★ Web Code: VBA

Part No.	Product No.	1	5
168729	ST400NT-R10	\$399.95	\$379.95

## Sport232-ST One Axis Stepper Motor Controller and DAC Board

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic)
- 8 digital I/O and 8 analog inputs w/ 12-bit resolution
- Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview



RMV

Part No.	Product No.	1	5
355047	Sport232-ST	\$164.95	\$156.75

## 32-Bit Stepper Motor Controller One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
- Multiple boards may share same serial line (RS485 only)
- Full, half or wave step modes
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- Interface to PC through RS232 or RS485 @ 2400-19,200bps
- 4-bit digital input for home limits
- Addressable up to 255 boards
- Weight: 0.7 lbs.



PONTECH

Part No.	Product No.	1	5
153621	STP-100	\$159.95	\$149.95

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★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## KAE

### Industrial Motion Controllers for Brush, Brushless & Stepper Motors

**323942:** • For brush-type DC motors with 2 or 3 channel incremental encoders

- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

**\*Web Code: QBV**



323942



323951



184997

**323951:** • For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors

- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply

- Amplifier capable of driving 6A continuously @ up to 48VDC

- Support for linear & circular interpolation using the PIC-SERVO CMC chipset

**184997:** • Trapezoidal position profiling, velocity mode, up to 50,000 steps per second

- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Integrated indexer and driver for 2 or 4 phase stepper motors

Part No.	Manufacturer P/N	Description	Size (L x W x H)	1	10
323942	KAE-TOV10-BDV1	PIC-SERVO motor control board	3.1" x 2.1" x 0.9"	\$159.95	\$151.95
323951	KAE-TOV10-BD3PHV1	PIC-SERVO 3-phase motor control board for brush or brushless motors	3.1" x 3.1" x 0.9"	239.95	227.95
184997	PIC-STEP	PIC-STEP motor control board	3.1" x 2.1" x 0.9"	159.95	151.95

JAMECO ReliaPro

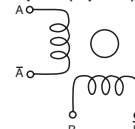
## Bipolar & Unipolar Stepper Motors

**\*Web Code: UBN**

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 24 VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- Insulation resistance: 100MΩ @ 500VDC
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Use P/N 161998, pg 186, for shaft coupler

Bipolar (2-phase)



Unipolar (4-phase)

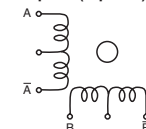


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

Part No.	Mfr.	Cross Ref. No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (ins.)	Mounting Holes (ins.)	Shaft Dia. (ins.)	Shaft Length (ins.)	Motor Dia. (ins.)	Motor Depth (ins.)	Wt. (lbs.)	Pricing		
																			1	10	25
237569	JRP	57BYG009	3	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	\$24.95	\$22.49	\$19.95
237614	JRP	57BYGH801	4	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	31.95	28.95	25.95
237535	JRP	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	15.95	14.25
1581231	ORM	PX243M-01AA	1	Unipolar	4	0.9	8.4	670	10	—	793	1.79	0.08	0.195	0.88	1.67	1.27	0.46	9.95	8.95	7.95
237552	JRP	57BYG008	3	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	31.95	28.95	25.95
237623	JRP	57BYGH802	4	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	36.95	33.25	29.95
237607	JRP	57BYGH001	4	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	36.95	33.25	29.95
237825	JRP	25BY4801	6	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	9.95	8.95	7.95
223870	JRP	57BYG070	3	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	29.95	26.95	24.25
237631	JRP	57BYGH803	4	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	59.95	53.95	48.95
171601	♦	PF35T48L4*	10	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	0.15	2.95	1.95	1.75
172646	JRP	42BYG205	3	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	19.95	17.95	15.95
224022	JRP	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	21.95	19.75	17.75
155433	JRP	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	20.95	18.95	16.95
237543	JRP	57BYG007	3	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	24.95	22.49	19.95
238538	JRP	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	21.95	19.75	17.75
162027	JRP	57BYG084	3	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	35.95	32.25	28.95
237876	JRP	25BY4809	6	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	5.49	4.95	4.49
238115	JRP	35BY48B08	7	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	8.49	7.49	6.75
237729	JRP	42BY48H07	11	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	7.49	6.75	5.95
237905	JRP	42BY48B04	11	Unipolar	24	7.5	110	220	53	145	630	1.95	0.14	0.12	0.45	1.65	0.59	0.20	5.49	4.95	4.49
237497	JRP	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	16.95	15.25	13.75
237593	JRP	85BYGH450	4	Bipolar	4.4	1.8	2.2	2000	—	—	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	109.95	99.95	89.95
237490	JRP	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	19.95	17.95	15.95
237578	JRP	57BYG061	3	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	37.95	33.95	30.75
237519	JRP	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	19.95	17.95	15.95
237454	JRP	39BYG201	2	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	19.95	17.95	15.95
395567	JRP	42BYG022-40	2	Bipolar	9.6	1.8	100	240	46	—	1100	1.7	0.90	0.20	0.26	1.67	1.29	0.43	12.95	11.49	9.95
155460	JRP	42BYG023	2	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	20.95	18.95	17.45
237472	JRP	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	21.95	19.75	17.75
237818	JRP	25BY2414	6	Bipolar	12	15	27	440	15.5	48	140	1.26	0.11	0.08	0.37	0.98	0.59	0.08	5.95	5.25	4.75
1585653	JPN	KP35FM2-044	9	Bipolar	24	1.8	8	500	7.8	90	700	1.45	0.09	0.197	0.90	1.62	1.05	0.32	5.95	5.35	4.85

\* 171601: Dual shaft with 10 tooth gear \*\* 155460: Dual shaft

\* JRP = Jameco ReliaPro | JPN = Japan Servo | ORM = Orient Motor | ♦ Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Scott Edwards Electronics, Inc.

### Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115554, pg 62) or modular adapter from DB9 to RJ11 (P/N 114738, pg 62)
- Size (PCB): 1.9"L x 1.4"W
- One-year warranty

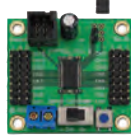


Part No.	Description	1	10
151001	Mini SSC II	\$43.95	\$41.75

### PARALLAX Servo Controller

Control up to 16 servos and may be networked together to control 32 servos using a single I/O line.

- 2400 to 348k baud serial port
- 16-bit PWM timers
- RS-232 serial protocol
- 63 ramp rates



Part No.	Product No.	1	10
282896	28023	\$39.95	\$35.95

## Servo Motors and Accessories

- + pulse width 1500usec neutral control system
- Operating voltage range: 4.8V to 6V

### Motors



Part No.	Product No.	Oper. Speed (4.8V @ no load)	Stall Torque @ 4.8V (kg.cm)	Direction	Operating Angle	Current Drain (mA, idle/ mA no load)	Dimensions (L" x W" x H")	Pricing	
								1	10
358619	HS-805BB	.19sec/600	19.9	Clockwise	450/one side pulse	8/700	2.6x1.2x1.3	\$59.95	\$56.95
395786	HS-422	.21sec/600	3.3	Clockwise	450/one side pulse	8/150	1.6x0.8x1.4	19.95	18.95
395760	HS-322HD	.19sec/600	3.0	Clockwise	40/one side pulse	7.4/160	2.1x0.8x1.44	12.95	11.49
358635	HS-311	.19sec/600	3.0	Clockwise	40/one side pulse	7.4/160	1.5x0.78x1.13	16.95	15.95
166351	HS-755HB	.28sec/600	11.0	Clockwise	40/one side pulse	8/230	2.3x1.1x2.0	44.95	42.95

### Accessories

Part No.	Description	1	10
358811	Servo Gripper, 1.3" opening (compatible with all servos above)	\$19.95	\$18.95
400400	Servo gearbox, 2:1 ratio, for use with P/N 358619	44.95	39.95
400418	Servo gearbox, 4:1 ratio, for use with P/N 358619	44.95	39.95
396279	3 color wire (red, black, yellow), 22-20, 50'	15.95	14.95

## 12VDC Solenoid Valve

- Current: 350mA
- Operating voltage: 12VDC
- Dimensions: 1.2"L x 0.92" Dia.
- Air leakage: 4psi, 1c.c./min. max.
- 0.250" quick disconnect terminals
- Operational temp.: -29°C to 85°C



\*Web Code: MEJ

Part No.	Product No.	1	10	25
169835	TAV-0829-R	\$9.95	\$8.95	\$7.95

## 12VDC Power Solenoid

- 12VDC
- 4Ω coil
- Handles a 225A load
- Intermittent 50% duty cycle
- 1/4-20 copper studs
- Contractors power solenoid
- 2.25" mounting centers
- Size: 1.86" x 3" base

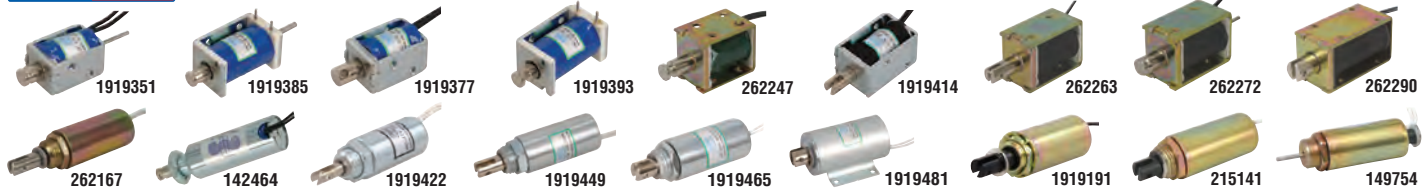


Part No.	Product No.	1	10	25
1585645	93285	\$3.95	\$3.49	\$2.95

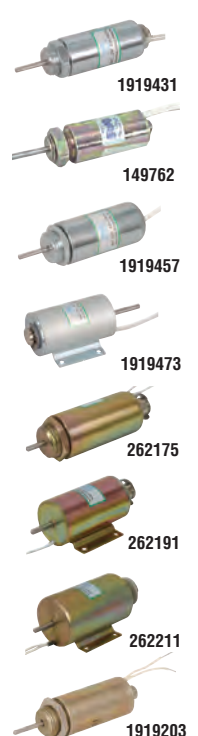
### JAMECO ReliaPro

## 12VDC & 24VDC Continuous Push/Pull Solenoids

\*Web Code: MEJ



Part No.	*Mfr.	Product No.	Type	Volt. (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @20°C)	Stroke (ins.)	Dimensions (L" x Dia.)	Shaft (Dia.)	Wt. (lbs.)	Pricing		
												1	10	25
1919351	JVP	SMO-0415S12STD	Open frame-push	12	180	0.8	0.026	0.20	0.6 x 0.4 x 0.3	0.157	0.02	\$16.95	\$15.25	\$13.75
1919385	JVP	SMO-0420S12STD	Open frame-push	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.060	0.02	14.95	13.49	11.95
1919377	JVP	SMO-0415L12STD	Open frame-pull	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.157	0.02	16.95	15.25	13.75
1919393	JVP	SMO-0420L12STD	Open frame-pull	12	120	1.2	0.04	0.10	0.8 x 0.5 x 0.4	0.070	0.02	9.95	8.95	7.95
262247	JVP	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	9.95	8.95	7.95
1919414	JVP	SMO-0630L12STD	Open frame-pull	12	60	2.4	0.187	0.10	1.2 x 0.8 x 0.6	0.060	0.10	14.95	13.49	11.95
262263	JVP	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	10.95	9.95	8.75
262272	JVP	SMO-0837S12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	10.95	9.95	8.75
262290	JVP	SMO-1253L12AA	Open frame-pull	12	24	6.0	3.31	0.24	2.1 x 1.8 x 1.1	0.472	0.46	9.95	8.95	7.95
262167	JVP	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	14.95	13.45	11.95
142464	JVP	SMT-1130L12AA	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	8.95	7.95	7.25
1919422	JVP	SMT-1632L12STD	Tubular-pull	12	26.6	5.5	0.88	0.06	1.6 x 0.6	0.196	0.10	14.95	13.49	11.95
1919449	JVP	SMT-1939L12STD	Tubular-pull	12	20.6	7.0	1.30	0.07	1.6 x 0.8	0.090	0.18	19.95	17.95	15.95
1919465	JVP	SMT-2551L12STD	Tubular-pull	12	14.4	10.0	1.50	0.18	2.0 x 1.0	0.118	0.40	18.95	16.95	15.25
1919481	JVP	SMT-3257L12STD	Tubular-pull	12	11.07	13.0	3.70	0.18	2.3 x 1.3	0.157	0.65	29.95	26.95	24.25
1919191	♦	121E18711	Tubular-pull	24	44	12.8	1.00	1.00	2.3 x 1.0	0.430	0.40	9.95	8.95	7.95
215141	JVP	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	13.95	12.55	11.29
149754	JVP	SMT-1325S12AA	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	19.95	17.95	15.95
1919431	JVP	SMT-1939S12STD	Tubular-push	12	20.6	7.0	1.30	0.07	1.6 x 0.8	0.090	0.18	19.95	17.95	15.95
149762	JVP	SMT-1632S12AA	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	16.95	15.25	13.75
1919457	JVP	SMT-2551S12STD	Tubular-push	12	14.4	10.0	1.50	0.18	2.0 x 1.0	0.118	0.39	21.95	19.95	17.95
1919473	JVP	SMT-3257S12STD	Tubular-push	12	11.07	13.0	3.70	0.18	2.3 x 1.3	0.157	0.65	29.95	26.95	24.25
262175	JVP	SMT-2551S24STD	Tubular-push	24	57.6	10.0	1.43	0.71	2.0 x 1.0	0.118	0.38	15.95	14.35	12.95
262191	JVP	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	24.95	22.45	19.95
262211	JVP	SMT-3864S24STD	Tubular-push	24	34	17.0	1.32	1.18	2.52 x 1.50	0.157	1.0	21.95	19.95	17.95
1919203	LEX	191172-001	Stroke-push	12	45	7.3	—	0.125	1.0 x 0.5	0.060	0.1	2.95	2.49	1.95



† Open frame type dimensions: L" x W" x H" \* Dual shaft

\* JVP = Jameco ValuePro | LEX = Lexedex | ♦ Manufacturer Varies

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# DC Brushless Tubeaxial Fans & Blowers

3 LEVELS OF SAVINGS  
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695050



1581249

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## DC Brushless Tubeaxial Fans & Blowers

★ 5V Web Code: TAS



★ 12V Web Code: LBZ



1809936



1951490

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
131247	Adda	AD0205LX-G50	5	25 x 25 x 10	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	\$14.95	\$13.49	\$11.95	\$10.95
695050	Sunon	GM0502PFV2-8	5	25 x 25 x 10	3.0	Vapo	80	0.4	UL/CUL	16	5.5"	12.95	11.49	9.95	8.95
1708481	Sunon	KDE0502PHB3-8 (MS)	5	25 x 25 x 15	1.8	Ball	80	0.4	UL/CUL	16	4"	12.95	11.49	9.95	8.95
1928311	Adda	AD0305LB-K70	5	30 x 30 x 6.8	2.5	Ball	60	0.3	UL/CUL/TUV/CE	30	6"	13.95	12.49	10.95	9.95
1951211	Sunon	KDE0503PEV1-8 (MSN)	5	30 x 30 x 6.8	4.9	Vapo	180	0.9	UL/TUV/CE	28	6"	10.95	9.95	8.95	7.95
1951220	Sunon	KDE0503PEB3-8 (MSN)	5	30 x 30 x 6.8	4.9	Ball	180	0.9	UL/TUV/CE	28	6"	12.95	11.49	10.49	9.49
1950534	Sunon	KDE0503PFB1-8V	5	30 x 30 x 10	5.1	Ball	180	0.7	UL/TUV	22.5	5"	11.95	10.95	9.95	8.95
1708457	Sunon	KDE0504PEB3-8 (MS)	5	40 x 40 x 6.8	3.5	Ball	90	0.45	UL/CUL/TUV	20	6"	9.95	8.95	7.95	6.95
1928361	Adda	AD0405MB-K90(S)	5	40 x 40 x 6.8	5.5	Ball	90	0.45	UL/TUV/CE	25	6"	10.95	9.95	8.95	7.95
1928353	Adda	AD0405HB-K90	5	40 x 40 x 6.8	6.0	Ball	120	0.6	UL/CUL/TUV/CE	30	5"	11.95	10.95	9.95	8.95
1581249	Sunon	KDE0504PFB3-8	5	40 x 40 x 10	4.6	Ball	70	0.35	UL/CUL	23.5	12"	5.95	5.35	4.79	4.19
196373	Sunon	KD0504PFB2-8	5	40 x 40 x 10	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	7.95	6.95	5.95
1928370	Adda	AD0405HS-G70	5	40 x 40 x 10	6.7	Sleeve	190	0.95	UL/CUL/TUV/CE	25	3" w/conn	6.95	6.25	5.59	4.95
1581265	Sunon	KDE0504PFS1-8	5	40 x 40 x 10	7.0	Sleeve	110	0.6	UL/CUL	27	12"	6.95	6.25	5.59	4.95
1585442	Sunon	KDE0504FB2 (MS)	5	40 x 40 x 10	7.0	Ball	140	0.7	CE	27	12"	7.95	6.95	6.25	5.59
1951238	Sunon	KDE0504PFB1-OC	5	40 x 40 x 10	7.5	Ball	200	1.0	UL/CE	28	12"	7.95	6.95	6.25	5.59
1952741	Elina	KDC050420MB	5	40 x 40 x 20	6.8	Ball/Sleeve	210	1.0	UL/CUL/TUV	25.5	12"	7.95	6.95	6.25	5.59
1951406	Delta	AFB0405HD-ROO	5	40 x 40 x 20	8.5	Ball	400	2.0	UL/CUL/TUV/CE	33	12" <sup>1</sup>	8.95	7.95	6.95	5.95
1951060	Mechatronics	M5010M05C	5	51 x 51 x 10	6.4	Ball/Sleeve	60	0.3	UL/CUL/CE	24	12"	6.95	6.25	5.59	4.95
136494	Delta	AFB0505LA	5	51 x 51 x 10	7.4	Ball/Sleeve	80	0.4	UL/CE/CSA/VDE	26	11"	7.95	6.95	6.25	5.59
1950500	Sunon	KDE0505PFB1-8	5	51 x 51 x 10	10.2	Ball	170	0.9	UL/TUV	31.5	12"	8.95	7.95	6.95	6.25
136275	Delta	BFB0505L <sup>†</sup>	5	51 x 51 x 15	2.5	Ball	140	0.7	UL/CE/CSA/VDE	26.5	12"	9.95	8.95	7.95	6.95
136283	Elina	KDC050515MB	5	51 x 51 x 15	12.7	Ball/Sleeve	380	4.0	UL/CE/CUL/TUV	28	11"	8.95	7.95	6.95	6.25
1809936	Sunon	KD0505PHB2(GN)	5	51 x 51 x 15	12.7	Ball	180	0.8	UL/CUL/TUV/CE	27.8	12"	9.95	8.95	7.95	6.95
1809944	Sunon	KDE0506PHB3	5	60 x 60 x 15	15.2	Ball	240	1.2	UL/CUL/TUV/CE	26.5	12"	8.95	7.95	6.95	6.25
2081756	Adda	AD0605HB-D71GL	5	60 x 60 x 15	16.6	Ball	370	1.8	UL/CUL/CE	32	6"	8.95	7.95	6.95	5.95
1708431	Sunon	KD0506PHB2	5	60 x 60 x 15	18.5	Ball	380	1.9	UL/CUL/TUV/CE	32	12"	9.95	8.95	7.95	6.95
1951414	Delta	AFB0605HD	5	60 x 60 x 20	16.6	Ball	240	1.2	UL/CUL/TUV/CE	28	12"	9.95	8.95	7.95	6.95
355493	Sunon	KD0506PTS3	5	60 x 60 x 25	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/conn	6.95	6.25	5.59	4.95
134869	Delta	AFB0605M	5	60 x 60 x 25	16.2	Ball	220	1.1	UL/CE/CSA/TUV	24.5	12"	7.95	6.95	6.25	5.59
1951078	Mechatronics	F6025E05B2-FS	5	60 x 60 x 25	24	Ball	700	3.5	UL/CUL	36	12" <sup>2</sup>	8.95	7.95	6.95	6.25
1951086	Mechatronics	F8025E05B2-FS	5	80 x 80 x 25	46	Ball	800	4.0	UL/CUL	32	12" <sup>2</sup>	9.95	8.95	7.95	6.95
1951094	Mechatronics	E9225M05B2-FS	5	92 x 92 x 25	44	Ball	560	2.8	UL/CUL	32	12" <sup>2</sup>	9.95	8.95	7.95	6.95
1951107	Mechatronics	F1238L05B2-FS	5	120 x 120 x 38	94	Ball	800	4.0	UL/CUL	36	12" <sup>2</sup>	10.95	9.95	8.95	7.95
1951641	Adda	AD0212LB-G50(GL)	12	25 x 25 x 10	1.8	Ball	70	0.84	UL/CUL/CE	15.6	5.5"	11.95	10.95	9.95	8.95
1708449	Sunon	KDE1202PFB1-8 (V)	12	25 x 25 x 10	3.1	Ball	83	1.0	UL/CUL	33	6"	11.95	10.95	9.95	8.95
212767	Sunon	KDE1203PFB3-8(V)	12	30 x 30 x 10	3.2	Ball	50	0.6	UL/CE	18.5	6"	9.95	8.95	7.95	6.95
1708465	Sunon	KDE1203PFB2-8 (MS)	12	30 x 30 x 10	4.2	Ball	66	0.8	UL/CUL	25	6"	9.95	8.95	7.95	6.95
212784	Sunon	KDE1203PFB1-8V	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	4"	9.95	8.95	7.95	6.95
212783	Sunon	KDE1203PFB1-8	12	30 x 30 x 10	5.1	Ball	75	0.9	UL/CUL/TUV/CE/VDE	27	5.9"	11.95	10.95	9.95	8.95
1928134	Adda	AD0312HB-D50	12	30 x 30 x 15	4.2	Ball	110	1.3	UL/CUL/TUV/CE	22.5	3" w/conn	7.95	6.95	5.95	4.95
212741	Sunon	KDE1235PFB2-8	12	36 x 36 x 10	4.5	Ball	60	0.8	UL/CUL/TUV/CE/VDE	21	5.9"	9.95	8.95	7.95	6.95
212759	Sunon	KDE1235PFB1-8	12	36 x 36 x 10	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	13.95	12.49	10.95	9.95
212760	Sunon	GM1235PFV1-8	12	36 x 36 x 10	7.0	Vapo	80	1.0	UL/CUL/TUV/CE	28	6"	14.95	13.49	11.95	10.95
1951490	Adda	AD0412HB-K90	12	40 x 40 x 6.8	6.0	Ball/Sleeve	80	1.0	UL/CUL/TUV/CE	30	5.5"	8.95	7.95	7.19	6.49
1950526	Sunon	KD1204PFS3H	12	40 x 40 x 10	4.2	Sleeve	60	0.7	UL/TUV	22	12"	5.95	5.35	4.79	4.29
210797	Sunon	KD1204PFV3	12	40 x 40 x 10	4.9	Vapo	60	0.6	UL/CUL/TUV/CE	24	12"	5.95	5.35	4.79	4.29
279611	Toyo	T401012VH	12	40 x 40 x 10	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	4.95	4.49	3.95	3.59
212717	Sunon	KDE1204PFV2.11.MS.AGN	12	40 x 40 x 10	6.5	Vapo	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	5.95	5.35	4.79	4.29
1585469	Y.S. Tech	FD1240107B-2N	12	40 x 40 x 10	6.6	Ball	90	1.08	UL/CUL/TUV	29	6"	5.95	5.35	4.79	3.95
1928054	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	2.5" w/conn	5.95	5.35	4.79	4.29
290010	Adda	AD0412HB-G70	12	40 x 40 x 10	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/conn	9.95	8.95	7.95	6.95
1950139	Sunon	KDE1204PFS2-11	12	40 x 40 x 10	7.0	Sleeve	92	1.1	UL/CUL/TUV/CE	27	12"	7.95	7.19	6.49	5.79
19801924	Sunon	KDE1204PFB2	12	40 x 40 x 10	7.5	Ball	90	1.1	UL/CUL/TUV/CE	30	12"	8.95	7.95	6.95	5.95
189691	Sunon	KD1204PFS1-11.GN	12	40 x 40 x 10	8.0	Sleeve	60	0.7	UL/CUL/TUV/CE	30	12"	7.95	7.19	6.49	5.79
212725	Sunon	KDE1204PFV1	12	40 x 40 x 10	8.3	Vapo	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.95	6.25	5.59	4.95

<sup>1</sup> 3 leads; speed sensor

<sup>2</sup> 3 leads; locked rotor protection (These functions are optional, if needed)

<sup>†</sup> Blower

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

# DC Brushless Tubeaxial Fans & Blowers

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## DC Brushless Tubeaxial Fans & Blowers (Continued)



★ 12V Web Code: LBZ



1585291



1950446



354933



1951174

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
2078151	Sunon	KD1204PFB1 OCM	12	40 x 40 x 10	8.5	Ball	110	1.3	UL/CUL/TUV	35	5" w/conn	\$7.95	\$7.19	\$6.49	\$5.95
1708473	Sunon	KDE1204PFVX11.MS.A	12	40 x 40 x 10	9.5	Vapo	150	1.8	UL/CUL/TUV	39	12"	6.95	6.25	5.59	4.95
136178	Adda	ADO412MS-C70	12	40 x 40 x 20	5.0	Sleeve	110	1.32	UL/CSA	23	9"	7.95	6.95	6.25	5.59
1809856	Sunon	GM1204PKV3-A	12	40 x 40 x 20	6.3	Vapo	50	0.6	UL/CSA/TUV	18	12"	6.95	6.25	5.59	4.95
195899	Sunon	KDE1204PKS2	12	40 x 40 x 20	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	6.95	6.25	5.59	4.95
279620	Toyo	T402012H	12	40 x 40 x 20	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	6.95	6.25	5.59	4.95
249375	Adda	ADO412HB-C56	12	40 x 40 x 20	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	2" <sup>1</sup>	6.95	6.25	5.59	4.95
687754	Sunon	KDE1204PKSX-8	12	40 x 40 x 20	9.5	Sleeve	90	1.1	UL/CSA	28	11"	6.95	6.25	5.59	4.95
2082100	Sunon	KDE1204PKBX-8	12	40 x 40 x 20	10	Ball	90	1.1	UL/TUV/CE	29.4	4"	7.95	6.95	6.25	5.59
206164	Sunon+	KDE1204PKBX-8	12	40 x 40 x 20	10	Ball	90	1.1	UL/TUV/CE	29.4	12"	9.95	8.95	7.95	6.95
1928118	Adda	AD4012HB-C50	12	40 x 40 x 20	10.5	Ball	100	1.2	UL/CUL/TUV/CE	31.9	12"	8.95	7.95	6.95	6.25
1585291	Sunon	GM1204PKVX-A	12	40 x 40 x 20	10.8	Vapo	130	1.6	UL/CUL/CSA	27.5	5"	6.95	6.25	5.59	4.95
2082089	Sanyo Denki	109P0412H302	12	40 x 40 x 28	11.3	Ball	195	2.3	UL/CSA/TUV	37	3.75"	8.95	7.95	6.95	5.95
1951246	Sunon	PMD1204PQBX-A(2)	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	12"	14.95	13.49	11.95	10.95
1951254	Sunon	PMD1204PQBX-A(2)F	12	40 x 40 x 28	23.5	Ball	570	6.8	UL/CE	51.5	12" <sup>1</sup>	14.95	13.49	11.95	10.95
1950753	Rotron	CR4512MB-G70	12	45 x 45 x 10	6.9	Ball	70	0.8	UL/CUL/CE/TUV	21.6	12"	6.95	6.25	5.59	4.95
212688	Sunon	KDE1245PFV1-11	12	45 x 45 x 10	11	Vapo	110	1.3	UL/CUL/TUV/CE/VDE	32	12"	6.95	6.25	5.59	4.95
1918809	Jamicon	KF0510B1M	12	51 x 51 x 10	9.27	Ball	80	0.8	UL/CUL/TUV/CE	26.6	10.5"	5.95	5.35	4.79	4.29
1950446	Sunon	KD1205PFB1(2)H	12	51 x 51 x 10	11.4	Ball	130	1.6	UL/TUV	34.7	12"	6.95	6.25	5.59	4.95
125006	Nidec	A33999-16 <sup>†</sup>	12	51 x 51 x 15	4.0	Ball	170	2.04	UL/CE	46	11"	9.95	8.95	7.95	6.95
139601	Adda+	AD0512HS-D71	12	51 x 51 x 15	12	Sleeve	100	1.2	UL/CSA/CE	29	5"	7.95	6.95	6.25	5.59
1585426	Sunon	KDE1205PHB2(MS)	12	51 x 51 x 15	13	Ball	80	1.0	UL/CUL/CE	29.5	9"	9.95	8.95	—	—
1809813	Sunon	GM1205PHV1-AR	12	51 x 51 x 15	17	Vapo	130	1.5	UL/CUL/TUV/CE	33	12" <sup>2</sup>	7.95	6.95	6.25	5.59
1946025	Evercool	EC6010M12CA	12	60 x 60 x 10	15.5	Ball	160	1.9	UL/CE/TUV	30	9" <sup>1</sup>	8.95	7.95	6.95	6.25
354933	Delta	EFB0612MA-FOO	12	60 x 60 x 10	15.5	Ball	80	0.95	UL/CSA/VDE/CE	29	12" <sup>1</sup>	8.95	7.95	6.95	6.25
1928046	Adda	AD0612LX-D70GL	12	60 x 60 x 15	12	Hypro	90	1.08	UL/CUL/TUV/CE	27.2	8"	7.95	6.95	6.25	5.59
2078178	Delta	AFB0612MB	12	60 x 60 x 15	13.4	Ball	80	0.96	UL/CUL/TUV/CE	29	12"	7.95	6.95	6.25	5.59
195945	Adda	AD612MS-D71GL	12	60 x 60 x 15	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	8.95	7.95	6.95	6.25
249069	Jamicon	JF0615B1H-000-243	12	60 x 60 x 15	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	12"	9.95	8.95	7.95	6.95
687771	Sunon	KDE1206PHS1	12	60 x 60 x 15	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	11"	8.95	7.95	6.95	6.25
1585400	Sunon	KDE1206PHB1	12	60 x 60 x 15	21	Ball	150	1.8	UL/CSA/CE	37.5	11"	10.95	9.95	8.95	7.95
144161	Adda	AD0612LB-C70GL	12	60 x 60 x 20	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	9.95	8.95	7.95	6.95
1809961	Sunon	KDE1206PKV3.13.MS.A	12	60 x 60 x 20	15	Vapo	70	0.8	UL/CUL/TUV/CE	25	12"	7.95	6.95	6.25	5.59
1928126	Adda	AD0612HB-C70GL	12	60 x 60 x 20	16.3	Ball	160	1.92	UL/CSA/TUV/CE	31	12"	7.95	6.95	6.25	5.59
189595	Sunon	KD1206PKS2	12	60 x 60 x 20	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	7.95	6.95	6.25	5.59
119635	Delta/Fonsan	DFD0612H	12	60 x 60 x 20	17.7	Ball	110	1.3	UL/CE/CSA/VDE	30	12"	7.95	6.95	6.25	5.59
1951182	Sunon	KDE1206PKV2 MS.A.GN	12	60 x 60 x 20	18.5	Vapo	90	0.8	UL/CE	27.5	11"	9.95	8.95	7.95	6.95
114682	Delta	AFB0612VHD <sup>†</sup>	12	60 x 60 x 20	30	Ball	270	2.4	UL/CE/CSA/VDE	39.5	12"	10.95	9.95	8.95	7.95
1810101	Japan Servo	TUDC12Z4F-022	12	60 x 60 x 25	19	Ball	140	1.8	UL/CSA/TUV	32	5" w/ conn	6.95	6.25	5.59	4.95
1951131	Nidec	TA225DC-M33455-16	12	60 x 60 x 25	20	Ball	220	2.64	UL/CSA	29.4	12"	8.95	7.95	6.95	6.25
102947	Jamicon	JF0625S1H	12	60 x 60 x 25	20.5	Sleeve	230	2.7	UL/CUL/TUV	33.6	12"	7.95	6.95	6.25	5.59
150422	Jamicon	JF0625B1H	12	60 x 60 x 25	21.4	Ball	230	2.7	UL/CSA/TUV	30.5	10"	8.95	7.95	6.95	6.25
195911	Sunon	KD1206PTS1AGN	12	60 x 60 x 25	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	9.95	8.95	7.95	6.95
689240	Sunon	KDE1206PTB1	12	60 x 60 x 25	22.1	Ball	190	2.2	UL/CUL/TUV/CE	34	11" w/ conn <sup>2</sup>	9.95	8.95	7.95	6.95
114674	Delta	AFB0612HH-R00	12	60 x 60 x 25	23	Ball	180	2.16	UL/CE/CSA/VDE	33	12" <sup>2</sup>	9.95	8.95	7.95	6.95
1919140	Sunon	KD1206PTB1(2)	12	60 x 60 x 25	23.5	Ball	148	1.8	UL/CUL/TUV/CE	30	12" <sup>1</sup>	9.95	8.95	7.95	6.95
1951043	Mechatronics	6025E12B3-FS	12	60 x 60 x 25	24	Ball	230	3.5	UL/CUL	36	12" <sup>3</sup>	8.95	7.95	6.95	6.25
1951158	Nidec	TA225DC-M34418-33L	12	60 x 60 x 25	25	Ball	280	3.36	UL/CSA	31.5	12" <sup>1</sup>	9.95	8.95	7.95	6.95
2081300	Sunon	PMD1206PTB1-A(2)FGN	12	60 x 60 x 25	36	Ball	325	3.9	UL//CUL/TUV/CE	44	12" <sup>1</sup>	12.95	11.49	9.95	8.95
2081288	Sunon+	PDM1206PMB1-A(2).F12	12	60 x 60 x 38	56.5	Dual Ball	880	10.6	UL//CUL/TUV/CE	56	12" <sup>1</sup>	14.95	13.49	11.95	10.95
123941	Nidec	DO7R-12TL018	12	70 x 70 x 15	19.8	Ball	80	0.96	UL/CSA	27	23" <sup>2</sup>	10.95	9.95	8.95	7.95
644842	Evercool	EC7530M12S-B <sup>†</sup>	12	76 x 72 x 30	10.8	Sleeve	170	2.0	UL/CE/TUV	30	8" w/ conn	12.95	11.49	9.95	8.95
1951174	Nidec	GAMMA28-A34351-16 <sup>†</sup>	12	76 x 76 x 30	10	Ball	230	2.76	UL/CSA	39	11"	13.95	12.49	10.95	9.95
614951	Delta	BFB0712H <sup>†</sup>	12	76 x 76 x 30	11.3	Ball	220	2.64	UL/CE/CSA/VDE	38	12"	14.95	13.49	11.95	10.95
132951	Shicoh	A0815-12HV	12	80 x 80 x 15	18.4	Ball/Sleeve	200	2.4	—	32	12" <sup>1</sup>	6.95	6.25	5.59	4.95

<sup>1</sup> 3 leads; speed sensor   <sup>2</sup> 3 leads; locked rotor protection   <sup>3</sup> Thermistor speed control (These functions are optional, if needed)   <sup>†</sup> Blower   Blue Part No. = Limited Quantity Available

Fans continued on next page

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# DC Brushless Tubeaxial Fans & Blowers

3 LEVELS OF SAVINGS  
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1810030



1928100

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## DC Brushless Tubeaxial Fans & Blowers (Continued)



\*12V Web Code: LBZ



1809995



644893

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
401269	Delta	AFB0812LB	12	80 x 80 x 15	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	\$8.95	\$7.95	\$6.95	\$6.25
1950163	Sunon	KD1208PHB3H	12	80 x 80 x 15	25.5	Ball	120	1.4	CE	28	12"	8.95	7.95	6.95	6.25
109081	Adda+	AD0812HS-D71	12	80 x 80 x 15	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.95	7.95	6.95
1708570	Sunon	KD1208PHB1-AH	12	80 x 80 x 15	35	Ball	240	2.9	UL/CUL/TUV/CE	39.5	12"	9.95	8.95	7.95	6.95
1809987	Sunon	KDE1208PHV1.13.MS.A	12	80 x 80 x 15	40	Vapo	200	2.4	UL/CUL/TUV/CE	34	12"	9.95	8.95	7.95	6.95
141921	Adda	AD0812HB-C70	12	80 x 80 x 20	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	10.95	9.95	8.95	7.95
2081748	Sunon	KDE1208PKV1.13.MS.A	12	80 x 80 x 20	36	Vapo	130	1.6	UL/CUL/TUV/CE	38	12"	10.95	9.95	8.95	7.95
688597	NMB	3110GL-B4W-B19	12	80 x 80 x 25	24.7	Ball	100	1.2	UL/CSA/TUV/CE	22	7" w/ conn. <sup>1</sup>	5.95	5.35	4.79	4.29
154289	Sunon	KDE1208PTS3-6	12	80 x 80 x 25	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	12"	9.95	8.95	7.95	6.95
1952759	Max Flow	MF8025D1-LSPS	12	80 x 80 x 25	31.1	Sleeve	130	1.56	UL	29	7" w/ conn.	6.95	6.25	5.59	4.95
123530	Adda	AD0812MS-A70GL	12	80 x 80 x 25	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	7.95	6.95	6.25	5.59
1955010	NMB	3110KL-O4W-B40	12	80 x 80 x 25	35.3	Ball	200	2.40	UL/CSA/TUV/CE	31	13"	6.95	6.25	5.59	4.95
1950147	Sunon	KD1208PTB2(2)HM	12	80 x 80 x 25	36	Ball	160	2.1	UL/CE/TUV	29	11" <sup>1</sup>	7.95	6.95	6.25	5.59
1810030	Sanyo Denki	109R0812H4011	12	80 x 80 x 25	36.4	Ball	130	1.56	UL/CSA/TUV	29	12" <sup>1</sup>	8.95	7.95	6.95	5.95
1537387	Sunon	KD1208PTB213(2).GN	12	80 x 80 x 25	37	Ball	110	1.3	UL/CUL/TUV/CE	32	11.5" w/ conn.	10.95	9.95	8.95	7.95
212636	Sanyo Denki	109L0812H4D01	12	80 x 80 x 25	37.4	Ball	180	2.16	UL/CSA/TUV	32	5.5" <sup>2</sup>	6.95	6.25	5.59	4.95
1928038	Adda	AD0812HS-A70GL	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CSA/TUV/CE	34.4	12"	5.95	5.35	4.79	4.29
1928100	Adda	AD0812HX-A70GL	12	80 x 80 x 25	38.6	Hydro wave	250	3.0	UL/CSA/TUV/CE	34	12"	5.95	5.35	4.79	4.29
2078194	Adda	AD0812HS-A73	12	80 x 80 x 25	38.6	Sleeve	250	3.0	UL/CSA/TUV	34.3	12" <sup>1</sup>	6.95	6.25	5.59	4.95
662661	NMB-MAT	FBA08A12H1BS	12	80 x 80 x 25	39.6	Hydro wave	173	2.1	UL/CSA/TUV	32	12" <sup>2</sup>	6.95	6.25	5.59	4.95
1585477	Sunon	KD1208PTS1-13	12	80 x 80 x 25	40	Sleeve	160	1.90	UL/CUL/TUV/CE	33	12"	5.95	5.35	4.79	4.49
1950569	Sunon	KD1208PTS1 H.M	12	80 x 80 x 25	40	Sleeve	160	2.6	UL/CE	33	12" <sup>1</sup>	5.95	5.35	4.79	4.39
1810021	Sunon	KDE1208PTV1.13.MS.A	12	80 x 80 x 25	40	Vapo	160	1.9	UL/CUL/TUV/CE	33	12"	6.95	6.35	5.59	4.95
1708490	Sunon	KDE1208PTB1-13.MS(2)A	12	80 x 80 x 25	41	Dual Ball	150	1.8	UL/CUL/TUV/CE	35	12"	7.95	6.95	6.25	5.59
206181	Sunon	KDE1208PTS1-6	12	80 x 80 x 25	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	7.95	6.95	6.25	5.59
355400	ReliaPro+	JR-DCF-128025B1	12	80 x 80 x 25	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.95	6.95	5.95	4.95
2081271	Sunon	KDE1208PTB1-6(OCM)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	12" <sup>1</sup>	8.95	7.95	6.95	5.95
249148	Sunon	KDE1208PTB1-6(OC)	12	80 x 80 x 25	42.5	Ball	220	2.6	UL/CUL/TUV/CE	36.5	12"	9.95	8.95	7.95	6.95
1810110	Sunon	KDE1208PTB1-6AF318	12	80 x 80 x 25	42.5	Ball	190	2.3	UL/CUL/TUV/CE	36.5	10" <sup>2</sup>	8.95	7.95	6.95	6.25
1954931	Comair Rotron	FE12K7X	12	80 x 80 x 25	45	Ball	250	3.0	UL/CSA/TUV/CE	40.8	11" <sup>1</sup>	10.95	9.95	8.95	7.95
1918729	Jamicon	JF0825S1SR	12	80 x 80 x 25	45.5	Sleeve	260	3.12	UL/CUL/TUV/CE	35.8	12" w/ conn.	7.95	6.95	6.25	5.59
421526	Panasonic	FBA08A12U-1A2	12	80 x 80 x 25	47	Sleeve	360	4.32	UL/CSA	38.2	11"	7.95	6.95	6.25	5.59
1809995	Sunon	KDE1208PTB-X-6A(318)	12	80 x 80 x 25	50.6	Ball	360	4.3	UL/CUL/TUV/CE	40.5	12"	15.95	14.95	12.95	11.49
2081078	Jamicon	JF0825B1UR	12	80 x 80 x 25	52	Dual Ball	370	4.4	UL/CUL/TUV/CE	40	12"	11.95	10.95	9.95	8.95
2081692	YS Tech	NFD128125BB-2F	12	80 x 80 x 25	59.2	Dual Ball	450	5.4	UL/CUL/TUV	44	20" w/ conn. <sup>1</sup>	12.95	11.49	10.49	9.49
107406	EBM Papst	8312GHL	12	80 x 80 x 32	39.4	Sleeve	330	4.0	UL/CE/CSA/VDE	43	12"	19.95	17.95	15.95	14.95
695682	Comair Rotron	O30615/ST12B3	12	80 x 80 x 32	34	Ball	280	3.4	UL/CUL/TUV/CE	40.9	12"	22.95	19.95	17.95	15.95
1951166	Nidec	TA350DC-M33416-16	12	92 x 92 x 25	28	Ball	110	1.32	UL/CSA	19.5	11"	7.95	6.95	6.25	5.59
1928089	Adda	AD0912LS-A70GL	12	92 x 92 x 25	32.4	Sleeve	130	1.6	UL/CUL/TUV/CE	23.5	12"	7.95	6.95	6.25	5.59
1952783	Nidec	TA350DC-M34138-34	12	92 x 92 x 25	35	Ball	160	1.92	UL/CSA	26.4	10" w/ conn. <sup>5</sup>	8.95	7.95	6.95	6.25
1952257	AVC	C9025S12L	12	92 x 92 x 25	37.2	Sleeve	150	1.8	UL/CUL/TUV/CE	26.2	5.5" <sup>1</sup>	8.95	7.95	6.95	6.25
1928097	Adda	AD0912LX-A70GL	12	92 x 92 x 25	37.9	Hypro	120	1.44	UL/CUL/TUV/CE	26.5	12"	9.95	8.95	7.95	6.95
1928003	Adda	AD0912MB-A71GL	12	92 x 92 x 25	44.2	Ball	170	2.0	UL/CUL/TUV/CE	32.7	12"	10.95	9.95	8.95	7.95
154641	Nidec	TA350DC-M33422-16	12	92 x 92 x 25	48	Ball	290	3.5	UL/CSA	43	12"	9.95	8.95	7.95	6.95
1952880	Nidec	TA350DC-M33422-57G4	12	92 x 92 x 25	48	Ball	290	3.48	UL/CSA	35	10" w/ conn. <sup>4</sup>	8.95	7.95	6.95	6.25
1952935	Sunon	KD1209FTB2-6	12	92 x 92 x 25	48	Dual Ball	500	2.1	UL/CSA/TUV/CE	32	25" w/ conn. <sup>4</sup>	10.95	9.95	8.95	7.95
190984	Sunon	KD1209PTB1-6A	12	92 x 92 x 25	51	Ball	220	2.6	UL/CSA/TUV	34	12"	11.95	10.95	9.95	8.95
207061	AVC	C9025S12H	12	92 x 92 x 25	52	Sleeve	160	3.8	UL/CUL/TUV/CE	34	6" w/ conn. <sup>1</sup>	7.95	6.95	5.95	4.95
1952767	NMB	3610KL-O4W-B56PS9	12	92 x 92 x 25	54.7	Ball	315	3.8	UL/CSA/TUV/CE	41	7" w/ conn. <sup>6</sup>	7.95	6.95	5.95	4.95
1952951	NMB	3610KL-O4W-B56PS6	12	92 x 92 x 25	55	Ball	315	3.8	UL/CSA/TUV/CE	41	9" w/ conn. <sup>2</sup>	7.95	6.95	5.95	4.95
102963	Nidec	TA350DC-M33503-55	12	92 x 92 x 25	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	5.95	4.95
1776281	Delta	AFB0912HH	12	92 x 92 x 25	57.9	Ball	250	3.0	UL/CSA/VDE/CE	38	12"	9.95	8.95	7.95	6.95
644893	Evercool	EC9733M12S-B†	12	97 x 92 x 33	19.4	Sleeve	200	2.4	UL/CE/TUV	30	8" w/ conn.	14.95	13.49	11.95	10.95
2081297	Delta	BFB1012H†	12	97 x 94 x 33	25.4	Dual Ball	800	9.6	UL/CSA/VDE/CE	52	6"	12.95	11.49	9.95	8.95
2081641	Delta	BFB1012H†	12	97 x 94 x 33	25.4	Dual Ball	800	9.6	UL/CSA/VDE/CE	52	11"	14.95	13.49	11.95	10.95

<sup>1</sup> 3 leads; speed sensor <sup>2</sup> 3 leads; locked rotor protection <sup>4</sup> Temperature sensor <sup>5</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

<sup>6</sup> 5 leads; locked rotor with 2 separate ground if needed (These functions are optional, if needed) \* Replacement for PC/XT power supply fan † Blower

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

# DC Brushless Tubeaxial Fans & Blowers

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## DC Brushless Tubeaxial Fans (Continued)



2082097



1537467



1951051



1951465

\* 12V Web Code: LBZ



\* 24V Web Code: QEF

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1951481	Delta/Dell	AFC0912DE-U4218	12	92 x 92 x 38	160	Dual Ball	2500	30	UL/CSA/TUV/CE	63	10" w/ conn. <sup>5</sup>	\$14.95	\$13.49	\$11.95	\$10.95
207062	Sony	SFF22C	12	100 x 104 x 35	21	Ball	900	10.8	UL/CSA	51	15" w/ conn. <sup>1</sup>	14.95	13.49	11.95	10.95
174140	Common Wealth	FP108MS3	12	120 x 120 x 25	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	12.95	11.49	10.49	9.49
689231	Sunon	KDE1212PTS3-6A	12	120 x 120 x 25	67	Sleeve	200	2.4	UL/CUL/TUV/CE	35	12"	14.95	13.49	11.95	10.95
227901	Common Wealth	FP-108M-S1-B	12	120 x 120 x 25	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	14.95	13.49	11.95	10.95
363848	Mechatronics	E1225H12B	12	120 x 120 x 25	82	Ball	385	4.62	UL/CUL/TUV	40	3.5"	9.95	8.95	7.95	6.95
1928020	Adda	AD1212HB-A71GL	12	120 x 120 x 25	85.2	Ball	370	4.5	UL/CUL/TUV/CE	39.1	12"	13.95	12.49	10.95	9.95
1952231	Turbofan	TA1225E12BS	12	120 x 120 x 25	93	Ball	580	7.0	UL/CSA/TUV	44	13"	10.95	9.95	8.95	7.95
1928011	Adda	AD1212US-A71GL	12	120 x 120 x 25	98.6	Sleeve	500	6.0	UL/CUL/TUV/CE	39.1	2" w/ conn.	6.95	5.95	4.95	3.95
2081705	T&T	1225H12B-PF1	12	120 x 120 x 25	119	Ball	800	9.6	UL/CUL/TUV/CE	47.5	21" w/ conn. <sup>1</sup>	11.95	10.95	9.95	8.95
2082151	Rotron	MC12B3QDN	12	120 x 120 x 32	102	Ball	660	7.9	UL/CSA/CE	47.8	12" <sup>2</sup>	19.95	17.95	15.95	14.49
868109	Comair Rotron	MC12B7	12	120 x 120 x 32	102	Ball	660	7.9	UL/CUL/TUV/CE	47.9	12"	24.95	22.49	19.95	17.95
2082097	Delta	BFB1212VH	12	120 x 120 x 32	40	Ball	1250	15	UL/CSA/VDE/CE	57	13"	19.95	17.95	15.95	14.49
1580289	EBM Pabst	4212/2	12	120 x 120 x 38	97.1	Ball	360	4.3	UL/CSA/VDE/CE	45	12" <sup>1</sup>	49.95	44.95	42.95	39.95
1585389	Japan Servo	CNDC12B4C-016	12	120 x 120 x 38	99	Ball	380	4.6	UL/CSA/TUV	40	12"	9.95	8.95	7.95	6.95
1580271	EBM Pabst	4182NX-12	12	120 x 120 x 38	106	Ball	380	4.5	UL/CSA/VDE	49	Terminal <sup>1</sup>	19.95	17.95	15.95	14.49
94626	Sunon	KD1212PMB1-6A	12	120 x 120 x 38	108	Ball	570	6.8	UL/CUL/TUV/CE	42	12"	13.95	12.49	10.95	9.95
1954703	Mechatronics	F1238H12B2-FS	12	120 x 120 x 38	112	Ball	440	5.3	UL/TUV	41	10" w/ conn. <sup>2</sup>	11.95	10.95	9.95	8.95
1952791	NMB	4715KL-04W-B46	12	120 x 120 x 38	118	Ball	900	8.4	UL/CSA/TUV/CE	47	6" w/ conn. <sup>2</sup>	8.95	7.95	6.95	5.95
1955028	NMB	4715KL-04W-B49	12	120 x 120 x 38	118	Ball	700	8.4	UL/CSA/TUV/CE	46	12" w/ conn. <sup>1</sup>	9.95	8.95	7.95	6.95
1951318	Nidec	VA450DC-35625-35	12	120 x 120 x 38	230	Ball	360	4.3	—	47	11" <sup>1,2</sup>	19.95	17.95	15.95	14.49
1537467	Comair Rotron	JQ12B7X	12	172 x 150 x 51	235	Ball	2260	25.2	UL/CSA/TUV/CE	54.3	12" <sup>2</sup>	22.95	19.95	17.95	15.95
1928281	Adda	AD0424HB-G70	24	40 x 40 x 10	6.7	Ball	90	2.16	UL/CUL/TUV/CE	25	10"	11.95	10.95	9.95	8.95
1951473	Delta	AFB0424MD	24	40 x 40 x 20	7.0	Ball	60	1.44	UL/CSA/TUV/CE	30	2" w/ conn.	8.95	7.95	6.95	5.95
100910	Sunon	KDE2404PKV2	24	40 x 40 x 20	7.7	Vapo	33	0.8	UL/CUL/TUV	21	12"	9.95	8.95	7.95	6.95
1951502	Adda	AD0424HB-C56	24	40 x 40 x 20	10.1	Ball	90	2.16	UL/CUL/TUV/CE	31.9	12" <sup>1</sup>	10.95	9.95	8.95	7.95
1708422	Sunon	KDE2406PHS3	24	60 x 60 x 15	15	Sleeve	50	1.2	UL/CUL/TUV/CE	31	12"	7.95	6.95	6.25	5.59
687818	Sunon	KDE2406PHB2	24	60 x 60 x 15	18	Ball	56	1.3	UL/CUL/TUV/CE	31	11"	9.95	8.95	7.95	6.95
212652	Delta/Fonsan	DFD0624H	24	60 x 60 x 20	17.7	Ball	100	2.4	UL/CE/CSA/TUV	30	12"	7.95	6.95	6.25	5.59
140661	NMB	2408NL-05W-B60	24	60 x 60 x 20	18.4	Ball	100	2.4	UL/CSA/TUV/CE	31	2" w/ conn.	5.95	4.95	4.49	3.95
1951191	Sunon	KDE2406PKV2MS.AGN	24	60 x 60 x 20	18.5	Vapo	90	1.1	UL/CE	27.5	11"	7.95	6.95	6.25	5.59
1954922	NMB	2410ML-05W-B10	24	60 x 60 x 25	14	Ball	60	1.44	UL/CSA/TUV/CE	23	13"	7.95	6.95	5.59	4.95
189861	Jamicon	JF0625B2M	24	60 x 60 x 25	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	9.95	8.95	7.95	6.95
1952177	Japan Servo	TUDC2424P-029	24	60 x 60 x 25	19	Ball	80	1.8	UL/CSA/TUV	32	12" <sup>2</sup>	7.95	6.95	6.25	5.59
212628	Adda	AD0624HS-A70GL	24	60 x 60 x 25	23.2	Sleeve	150	3.6	UL/CSA/TUV/CE	32.3	17" w/ conn.	7.95	6.95	6.25	5.59
1928337	Adda	AD624HX-A70GL	24	60 x 60 x 25	23.2	Hypro	150	3.6	UL/CSA/TUV/CE	32.3	12"	8.95	7.95	6.95	6.25
1928071	Adda	AD0624HB-A70GL	24	60 x 60 x 25	24	Ball	150	3.6	UL/CSA/TUV/CE	33.9	12"	9.95	8.95	7.95	6.95
2081799	Nidec Beta	TA225DC-M33516-16	24	60 x 60 x 25	25	Ball	180	4.3	UL/CSA	37	12"	9.95	8.95	7.95	6.95
1809848	Sunon	PMD2406PTB1-A	24	60 x 60 x 25	35.8	Ball	220	5.3	UL/CUL/TUV/CE	48.8	12"	9.95	8.95	7.95	6.95
1928345	Adda	AD0824HX-D71L	24	80 x 80 x 15	29	Hypro	130	3.12	UL/CUL/TUV/CE	33.5	12"	9.95	8.95	7.95	6.95
1809864	Sunon	PMD2408PMB1-A	24	80 x 80 x 25	24	Ball	400	9.6	UL/CUL/TUV	55.2	12"	7.95	6.95	6.25	5.59
290029	Jamicon	JF0825B2M	24	80 x 80 x 25	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.95	7.95	6.95	6.25
136161	Jamicon	JF0825B2H	24	80 x 80 x 25	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.95	8.95	7.95	6.95
1809952	Sunon	KDE2408PTB1-6A	24	80 x 80 x 25	42.5	Ball	110	2.6	UL/CUL/TUV/CE	36.5	12"	9.95	8.95	7.95	6.95
1928388	Adda	AD0824UB-A72GL	24	80 x 80 x 25	50	Ball	260	6.24	UL/CUL/CE	41	12" <sup>2</sup>	8.95	7.95	6.95	6.25
1580422	EBM Pabst	8314/12	24	80 x 80 x 32	31.8	Ball	245	2.5	UL/CUL/CSA/VDE	36	11" w/ conn. <sup>1</sup>	19.95	17.95	15.95	14.49
206965	Sunon	PMD2408PMB2-A	24	80 x 80 x 38	74.5	Ball	300	7.2	UL/CUL/CSA/VDE	52	12"	19.95	17.95	15.95	14.49
1951051	Mechatronics	E9225L24B1-FS	24	92 x 92 x 25	35	Ball	85	2.04	UL/CUL	27	12" <sup>1</sup>	9.95	8.95	7.95	6.95
1708502	Sunon	KDE2405PTS3-6	24	92 x 92 x 25	39	Sleeve	112	2.7	UL/CUL/TUV/CE	27	12"	12.95	11.49	9.95	8.95
1928329	Adda	AD0924HX-A70GL	24	92 x 92 x 25	50	Hypro	150	3.6	UL/CUL/TUV/CE	33.7	12"	9.95	8.95	7.95	6.95
695042	Sunon	KD2409PTB1-13AGN	24	92 x 92 x 25	51	Ball	140	3.4	UL/CE/TUV	37	12"	10.95	9.95	8.95	7.95
1928302	Adda	AD0924US-A71GL	24	92 x 92 x 25	57.8	Sleeve	210	5.04	UL/CUL/TUV/CE	38.6	12"	12.95	11.49	9.95	8.95
104890	EBM Pabst	3314/12	24	92 x 92 x 32	47.1	Ball	140	3.4	UL/CE/TUV	37	12" <sup>1</sup>	14.95	13.49	11.95	10.95
1951465	Delta	FFB0924VHE	24	92 x 92 x 38	85	Ball	280	6.7	UL/CSA/VDE/CE	47	12"	14.95	13.49	11.95	10.95
1809881	Sunon	KD2412PTB1-6A	24	120 x 120 x 25	90	Ball	220	5.3	UL/CUL/TUV/CE	44.5	12"	13.95	12.49	10.95	9.95
1951115	Nidec	TA450DC-A34350-16	24	120 x 120 x 25	92	Ball	180	4.32	UL/CSA	40.4	10"	11.95	10.95	9.95	8.95

<sup>1</sup> 3 leads; speed sensor <sup>2</sup> 3 leads; locked rotor protection <sup>5</sup> 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard (These functions are optional, if needed)

<sup>†</sup> Blower <sup>⊗</sup> Blue Part No. = Limited Quantity Available

Fans continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# DC Brushless Tubeaxial Fans, Blowers, Power Cords, Guards & Filters

Call for additional OEM PRICING – we carry major manufacturers.

## DC Brushless Tubeaxial Fans & Blowers (Continued)



153411



212661

\* 24V Web Code: QEF



\* 48V Web Code: MAJ



1952960



1952775

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VDC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
1708537	Sunon	KDE2412PMS3-6A	24	120 x 120 x 38	83	Sleeve	160	4	UL/CUL/TUV/CE	34	12"	\$12.95	\$11.49	\$9.95	\$8.95
694516	Jamicon	JF1238B2LR130-065R	24	120 x 120 x 38	84.5	Ball	130	3.12	UL/CSA/TUV/CE	33.8	9.5"	13.95	12.49	10.95	9.95
153411	Sunon	KD2412PMB2-6A	24	120 x 120 x 38	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	15.95	14.49	12.95	10.95
694444	Jamicon	JF1238S2MR-R	24	120 x 120 x 38	101.3	Sleeve	220	5.28	UL/CSA/TUV/CE	39.1	9"	16.95	14.95	13.49	11.95
694524	Jamicon	JF1238B2MR-R	24	120 x 120 x 38	101.3	Ball	220	5.28	UL/CSA/TUV/CE	39.1	9"	17.95	15.95	14.49	12.95
107394	EBM Pabst	4294GH	24	120 x 120 x 38	108	Sleeve	220	5.3	UL/CE/CSA/TUV	49	Terminals	17.95	15.95	14.49	12.95
694532	Jamicon	JF1238B2HR130-065R	24	120 x 120 x 38	118.7	Ball	310	7.44	UL/CSA/TUV/CE	43.8	9.5"	19.95	17.95	15.95	14.49
1809910	Sunon	KD2412PMSX-6A	24	120 x 120 x 38	119	Sleeve	300	7.2	UL/CUL/TUV/CE	45	12"	17.95	15.95	14.49	12.95
1951203	Sunon	PSD2412PMB1(2)	24	120 x 120 x 38	200	Ball	800	19.2	UL/CE/TUV	62	12"	19.95	17.95	15.95	14.49
297959	Delta	BFB1224HE	24	125 x 126 x 34	27.2	Ball	340	8.1	UL/CE/CSA/TUV	50.5	12"	14.95	13.49	11.95	10.95
104265	EBM Pabst	5114N	24	135 x 135 x 38	147.1	Ball	395	9.5	UL/CSA/CE/VDE	48	12"	19.95	17.95	15.95	14.49
212662	EBM Pabst	6424R-139	24	172 x 150 x 51	241	Ball	750	18	UL/CUL/TUV	57	24" 6	19.95	17.95	15.95	14.49
212661	EBM Pabst	6224N/8HT	24	172 Round x 51	241.3	Ball	750	18	UL/CE/CSA/VDE	55	12" 6	19.95	17.95	15.95	14.49
212644	Delta	AFB0948L	48	92 x 92 x 25	37	Ball	50	2.44	UL/CSA/TUV/CE	25	12"	14.95	13.49	11.95	10.95
212653	Delta	BFB1248HH	48	120 x 120 x 32	35.3	Ball	220	10.5	UL/CSA/CE/VDE	54	12"	17.95	15.95	14.49	12.95
1952960	Corair Rotron	MC48B6QDNX	48	120 x 120 x 32	102	Ball	180	8.4	UL/CSA/TUV/CE	48	11" w/ conn. 1	15.95	14.49	12.95	11.49
1951457	Delta	EFB1248HHF	48	120 x 120 x 32	120	Ball	140	6.72	UL/CSA/TUV/CE	50.5	6" w/ conn.	17.95	15.95	14.49	12.95
1952775	Orion	OD1232-48HB	48	120 x 120 x 32	120	Ball	180	8.6	UL/TUV/CE	51	12" 5	19.95	17.95	15.95	14.49
1951422	Delta	FFB1248HE-ROO	48	120 x 120 x 38	190	Ball	500	24	UL/CSA/TUV/CE	59	12" w/ conn. 2	17.95	15.95	14.49	12.95
689063	EBM Pabst	W2G115-AG75-85	48	127 x 127 x 38	155	Ball	310	15	UL/CUL	52	10" 1	17.95	15.95	14.49	12.95
1954711	Delta	EFB1348HHE-SV06	48	127 x 127 x 38	185	Ball	360	17.28	UL/CSA/VDE/CE	55.5	26" 1	19.95	17.95	15.95	14.49

1 3 leads; speed sensor 2 3 leads; locked rotor protection 5 4 Leads wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

6 5 leads; locked rotor with 2 separate ground if needed (These functions are optional, if needed) ↑ Blower

## DC & AC Plug Fan Power Cords

\* Web Code: GAE

### For Fans w/ Terminal Connection

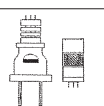


Fig. 1  
Straight



Fig. 2  
45°



Fig. 3  
90°



Part No.	Description	Fig.	Length	1	10	100	250
28564	Straight pigtail fan cord	1A	24"	\$1.49	\$1.25	.99	\$.89
2076658	Straight pigtail fan cord	1A	36"	1.49	1.25	.99	.89
1952548	45° pigtail fan cord	2A	24"	1.25	1.19	1.09	.99
104192	90° pigtail fan cord	3A	24"	1.25	1.19	1.09	.99
1952564	90° pigtail fan cord	3A	24"	1.29	1.25	1.15	1.09
1952572	Straight AC plug fan cord	1B	72"	2.95	2.69	2.39	2.19
1952581	45° AC plug fan cord	2B	72"	2.95	2.69	2.39	2.19

## Fan Guards & Aluminum Washable Filters

Guards and filters fit all fans. Please match by size dimension.

\* Web Code: UAR

Example: P/N 300557 fan (80mm) matches P/N 31924 metal guard (80mm).

Part No.	mm	Description	Fig.	1	10	50	100
123502	40	Metal (chrome) guard	1	\$.59	\$.55	\$.49	\$.45
120038	60	Metal (chrome) guard	1	.65	.59	.55	.49
687666	60	Metal (black anodized) guard	2	.85	.79	.75	.69
31924	80	Metal (chrome) guard	1	.69	.65	.59	.55
1928433	80	Metal (black anodized) guard	2	.89	.85	.79	.69
123511	92	Metal (chrome) guard	1	.85	.79	.75	.69
25735	120	Metal (chrome) guard	1	.79	.75	.69	.65
695068	120	Metal (black anodized) guard	2	1.09	.99	.89	.79
695076	127	Metal (chrome) guard	1	1.25	1.09	.99	.89
1811198	172	Metal (chrome) guard	1	1.25	1.09	.99	.89
1952644	40	Plastic guard only	3	.55	.49	.45	.39
1952652	60	Plastic guard only	3	.65	.59	.55	.49
1952290	80	Plastic guard only	3	.79	.69	.59	.55

Part No.	mm	Description	Fig.	1	10	50	100
1952661	92	Plastic guard only	3	\$.89	\$.85	\$.75	\$.69
1952679	120	Plastic guard only	3	.99	.89	.79	.75
1952687	150	Plastic guard only	3	1.39	1.25	1.15	1.05
1952695	40	Plastic guard w/ mesh	4	1.29	1.19	1.09	.99
1952708	60	Plastic guard w/ mesh	4	1.49	1.39	1.25	1.19
138562	80	Plastic guard w/ mesh	4	1.65	1.49	1.39	1.29
229665	92	Plastic guard w/ mesh	4	1.95	1.75	1.59	1.45
196817	120	Plastic guard w/ mesh	4	2.19	2.09	1.95	1.79
1952716	172	Plastic guard w/ mesh	4	2.79	2.49	2.29	2.19
1952724	60	Alum. washable filter	5	2.25	1.95	1.75	1.59
138580	80	Alum. washable filter	5	2.49	2.29	2.09	1.89
1952732	92	Alum. washable filter	5	2.95	2.75	2.49	2.25
130105	120	Alum. washable filter	5	3.25	2.95	2.75	2.49

Fig. 1



Fig. 2

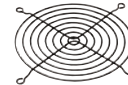


Fig. 3



Fig. 4



Fig. 5

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





212600



206309

## 115 & 220VAC Tubeaxial Fans



\* Web Code: ABJ



275793



209365

### mm to Inches Conversion Chart

mm	6.8	10	15	20	25	28	30	32	35	38	40	45	51	60	76	80	92	95	97	120	127	150	172
Inches	0.27	0.40	0.60	0.80	1.00	1.10	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.99	3.15	3.63	3.74	3.82	4.69	5.00	5.90	6.77

Part No.	Manufacturer	Mfr. Part No.	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection	Pricing			
												1	10	50	100
213867	Fulltech	UF60D11BWH	115	60 x 60 x 30	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$17.95	\$15.95	\$14.49	\$12.95
146078	Common Wealth	FP108AX-S1-B (115)	115	80 x 80 x 25	23	Ball	180	14	UL/CE	29	12" leads	15.95	14.49	12.95	11.49
300557	Fulltech	UF80B11SWH	115	80 x 80 x 25	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	11.95	10.95	9.95	8.95
300258	Fulltech	UF80B11BTH	115	80 x 80 x 25	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	13.95	12.49	10.95	9.95
300582	Fulltech	UF80A11SWL	115	80 x 80 x 38	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	13.95	12.49	10.95	9.95
212645	Elina	EP083815-LBL	115	80 x 80 x 38	24	Ball	110	9	UL/CSA/TUV/CE	32	12" leads	13.95	12.49	10.95	9.95
300303	Fulltech	UF80A11BWL	115	80 x 80 x 38	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	15.95	14.49	12.95	11.49
300329	Fulltech	UF80A11BTL	115	80 x 80 x 38	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	15.95	14.49	12.95	11.49
300600	Fulltech	UF80A11BWH	115	80 x 80 x 38	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	15.95	14.49	12.95	11.49
1950155	Sunon	SF1580A-1083HSL-GN	115	80 x 80 x 38	30	Sleeve	150	13	UL/CE/TUV	33	24" leads	13.95	12.49	10.95	9.95
300389	Fulltech	UF80A11BTH	115	80 x 80 x 38	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	15.95	14.49	12.95	11.49
75433	Sunon	SF11592A-1092HSL	115	92 x 92 x 25	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	13.95	12.49	10.95	9.95
303467	Sunon	SF11592A-1092HBL	115	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	14.95	13.49	11.95	10.95
75460	Sunon	SF11592A-1092HBT-R	115	92 x 92 x 25	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	16.95	14.95	13.49	11.95
1819376	NMB	4710PS12TB30A00	115	120 x 120 x 25	70.6	Ball	190	11	UL/CSA/VDE/CE	38	Terminals	14.95	13.49	11.95	10.95
1810048	Sunon	SP101AT-1122HBL-GN	115	120 x 120 x 25	78	Ball	180	18	UL/CUL/TUV/CE	46	12" leads	16.95	14.95	13.49	11.95
124063	Sunon	SP101AT-1122HBT	115	120 x 120 x 25	78	Ball	180	18	CSA/TUV/CE	46	Terminals	16.95	14.95	13.49	11.95
303361	Fulltech	UF12A11BTL1	115	120 x 120 x 38	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	15.95	14.49	12.95	11.49
1585371	Sunon	SP103A-1123LBL	115	120 x 120 x 38	78	Ball	130	11	UL/CSA/TUV	39	6" w/ conn.	11.95	10.95	9.95	8.95
1918796	Jamicon	KA1238L1B0A0-T	115	120 x 120 x 38	78	Dual Ball	200	12	UL/CUL/CE	38	Terminals	14.95	13.49	11.95	10.95
300792	Fulltech	UF12A11STL	115	120 x 120 x 38	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	14.95	13.49	11.95	10.95
303483	Fulltech	UF12A11SWL	115	120 x 120 x 38	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	12.95	11.49	10.49	9.49
111895	Common Wealth	FP108-1-S1/W	115	120 x 120 x 38	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	13.95	12.49	10.95	9.95
106586	Common Wealth	FP108-1-S1/T	115	120 x 120 x 38	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	13.95	12.49	10.95	9.95
303415	Common Wealth	FP108-1-S1-B/W	115	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	14.95	13.49	11.95
16935	Common Wealth	FP108-1-S1-B/T	115	120 x 120 x 38	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	16.95	14.95	13.49	11.95
212600	Fulltech	UF12A11BWH	115	120 x 120 x 38	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	15.95	14.49	12.95	11.49
1707163	Sunon	SP101A-1123HBL-GN	115	120 x 120 x 38	107	Ball	180	18	UL/CSA/TUV	50	12" leads	15.95	14.49	12.95	11.49
206309	Adda	AA1281UB-AT	115	120 x 120 x 38	107	Ball	230	24	UL/CUL/CE	48	Terminals	15.95	14.49	12.95	11.49
275793	Sunon	SP101A-1123HBT	115	120 x 120 x 38	107	Ball	180	18	UL/CUL/CE	50	Terminals	16.95	14.95	13.49	11.95
1918770	Jamicon	KA1238H1B110-T	115	120 x 120 x 38	110	Dual Ball	300	24	UL/CUL/CE	45	Terminals	12.95	11.49	9.95	8.95
303408	Sunon	SP100A-1123XBL	115	120 x 120 x 38	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	17.95	15.95	14.49	12.95
102884	Sunon	SP100A-1123XBT	115	120 x 120 x 38	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	17.95	15.95	14.49	12.95
108725	Fulltech	UF15AC11BTH	115	172 x 150 x 38	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	36.95	34.95	32.95	29.95
212582	Fulltech	UF15PC11BWH	115	172 x 150 x 51	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	36.95	34.95	32.95	29.95
189684	Fulltech	UF15PC12BTH	115	172 x 150 x 51	226	Ball	250	30	CSA	58	Terminals	34.95	32.95	29.95	26.95
1950956	Arctic	KEST-481BW	115	172 x 150 x 51	260	Ball	620	46	UL/CE/TUV	61	12" leads	34.95	32.95	29.95	26.95
1810128	Common Wealth	FP-108AX-S1-B (220)	220	80 x 80 x 25	21	Ball	120	13	UL/CSA/TUV/CE	29	13" leads	16.95	14.95	13.49	11.95
100918	Sunon	SF23080A/2083HSL	220	80 x 80 x 38	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	16.95	14.95	13.49	11.95
355630	Fulltech	UF-80A23-BTH-R	220	80 x 80 x 38	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	16.95	14.95	13.49	11.95
209365	Bi-Sonic	4C-230LB	220	120 x 120 x 38	63	Ball	60	9	TUV/CE	34	10" leads	15.95	14.49	12.95	11.49
1918753	Jamicon	KA1238H2B01	220	120 x 120 x 38	89	Dual Ball	200	23	UL/CUL/TUV/CE	42	Terminals	13.95	12.49	10.95	9.95
302244	Comair	28023	220	120 x 120 x 38	88	Ball	130	28.6	UL/CSA	50.7	Terminals	14.95	13.49	11.95	10.95
1918761	Jamicon	KA1238H2B12	220	120 x 120 x 38	110	Ball	200	24	UL/CUL/TUV/CE	45	Terminals	12.95	11.49	9.95	8.95
303459	Sunon	DP200A-2123XBL	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.49	12.95	11.49
1585346	Sunon	A2123-HBL	220	120 x 120 x 38	117	Ball	120	20	UL/CUL/TUV	50	17" leads	14.95	13.49	11.95	10.95
1585398	Sunon	A2123-HBT	220	120 x 120 x 38	117	Ball	120	20	UL/CUL/TUV	50	Terminals	15.95	14.49	12.95	11.49
102892	Sunon	DP200A-2123XBT	220	120 x 120 x 38	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.49	12.95	11.49
1809872	Sunon	A2175-HBT	220	172 x 150 x 51	239	Ball	110	25	UL/TUV/CE	51	Terminals	29.95	26.95	23.95	19.95
1950964	Arctic	KEST-482BW	220	172 x 150 x 51	256	Ball	400	58	UL/TUV/CE	58	12" leads	32.95	29.95	26.95	23.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# AC-to-AC & AC-to-DC Regulated Switching Wall Adapters

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO  
ReliaPro



## AC-to-AC Wall Adapters

Input: 120VAC @ 60Hz



NEW  
HARBIN IN PINK



One-Year  
Warranty

\* Web Code: ABQ

We specialize in Wall Adapters – Call for additional OEM PRICING.

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 126) for just \$2.50 each. A 100 pc. minimum order applies.

Part No.	Manufacturer	Manufacturer Part No.	Output Rating		Output Connector ID x OD mm Female/Male	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
2082521	Atlinks	5-2634	5	400	2.1mm x 5.5mm right angle F	2.0 x 1.4 x 1.3	White	6'	0.4	UL/CSA	\$3.95	\$3.59	\$3.25	\$2.95
2082530	Atlinks	5-2633	5	400	2.1mm x 5.5mm right angle F	2.0 x 1.4 x 1.3	Black	6'	0.4	UL/CSA	4.95	4.49	3.95	3.59
249017	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	9.95	8.95	7.95	7.29
100061	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
1950921	ITI	AM-9700ALF	9	700	Screw terminals	2.8 x 2.0 x 1.7	White	—	0.6	UL	6.95	6.25	4.95	3.95
236814	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	5.95	5.35	4.79	4.29
1581281	OEM	AA-091A	9	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
102234	ReliaPro	ACU090100Z8182	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	8.95	7.95	7.29	6.49
1586154	Arndt	A9-1A	9	1000	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	6.95	6.25	5.59
157041	ReliaPro	ACU090100E8942	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	8.95	7.95	7.29	6.49
112336	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	10.95	9.95	8.95	7.95
688634	Arndt	PP-1012-A	10	1200	2.5mm x 5.5mm F	3.5 x 2.5 x 1.9	Black	6'	1.3	UL	9.95	8.95	7.95	6.95
2076543	Radio Shack	15-1963	12	400	2.1mm x 5.5mm F	2.6 x 1.7 x 1.6	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.29
101258	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
2076666	CIC	48A12-500Q	12	500	2.5mm x 5.5mm right angle F	3.3 x 2.6 x 2.0	Black	6'	1.0	CSA	5.95	5.35	4.79	4.29
10081	ReliaPro	ACU120100J0920	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	9.95	8.95	8.95	7.29
100167	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	7.29
10428	ReliaPro	ACU120100Z9121	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	9.95	8.95	7.95	7.29
167151	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	10.95	9.95	8.95	7.95
307838	ReliaPro	ADU120160H4120	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	12.49	9.95	7.49	6.75
153761	ReliaPro	ADU120160C2521	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	12.49	9.95	7.49	6.75
206404	Arndt	MGT1220	12	1670	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	9.95	8.95	7.95	7.29
2082564	ReliaPro	GPU1355000	13.5	5000	2.1mm x 5.5mm F (Table-Top style)	4.7 x 3.2 x 2.5	Black	6'	2.4	—	22.95	20.49	18.95	16.95
1954949	Creative	UA1450	13.5	5000	2.1mm x 5.5mm F (Table-Top style)	3.1 x 2.9 x 2.5	Black	6'/6"	2.4	UL/CUL	24.95	22.49	19.95	17.95
171408	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	9.95	8.95	7.95	6.95
318684	Horizon	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	12.95	11.49	9.95	8.95
100108	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
163053	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	10.95	9.95	8.95	7.95
176604	ReliaPro	BHU160400	16	4000	2.1mm x 5.5mm F (Table-Top style)	4.4 x 3.1 x 2.5	Black	6'/6"	2.8	—	19.95	17.95	15.95	13.95
2082142	Ault	308-2018	18	900	Screw terminals	1.88 x 2.18 x 1.95	Beige	—	0.7	UL	9.95	8.95	7.95	6.95
121216	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.95	8.95	7.95
185439	Ault	AFU180185	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	—	13.95	12.49	10.95	9.95
2076631	Ault	T57-182200	18	2200	2.1mm x 5.5mm F	3.2 x 2.6 x 2.2	Black	5'6"	1.2	UL/CSA	14.95	13.49	11.95	10.95
87581	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
206439	Arndt	MGT2420	24	830	Screw terminals with green LED	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	10.95	9.95	8.95	7.95
140599	ReliaPro	ADU240100D5531	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
10102	ReliaPro	ADU240100E0461	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	10.95	9.95	8.95	7.95
176356	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	—	12.95	11.49	9.95	8.95

JAMECO  
ReliaPro

## AC-to-DC "Slim Line" Regulated Switching Wall Adapters

Output connector: 2.1mm x 5.5mm F2 (center positive)

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Output cord length: 6'
- Input voltage: 100 – 240VAC @ 47-63Hz
- Color: black
- One-year warranty

UL, CE, and other certification logos.  
All are UL/CUL;  
Only Non-CEC are TUV/CE

\* Web Code: CBQ

JAMECO  
EXCLUSIVE

We'll Brand the Adapters  
With Your Company Name  
Call 1-800-831-4242 for Details



CEC Equivalents Available Below

Choose from 2 Models!		Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
Non-CEC P/N	CEC Part No.	Volt (VDC)	Curr. (mA)			1	10	50	100
—	251565	3.3	1500	2.5x1.1x1.7	0.2	\$11.95	\$10.95	\$9.49	\$8.49
—	251600	3.3	2500	2.9x1.1x1.7	0.3	12.95	11.49	9.95	8.95
252701	—	5	500	2.9x1.1x1.7	0.3	10.95	9.95	8.95	7.95
252719	252720	5	1000	2.5x1.1x1.7	0.2	12.95	11.49	9.95	8.95
252727	252728	5	1500	2.5x1.1x1.7	0.2	13.95	12.49	10.95	9.95
—	252736	5	2500	2.9x1.3x2.2	0.3	14.95	13.49	11.95	10.49
2082222	—	5	3000	2.9x1.3x2.2	0.3	14.95	12.95	10.95	8.95
—	252753	9	500	2.5x1.1x1.7	0.2	11.95	10.95	9.95	8.95
—	1950841	9	1000	2.5x1.1x1.7	0.2	13.95	12.49	10.95	9.95
—	252779	9	1200	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
252786	—	9	1500	2.9x1.3x2.2	0.3	15.95	14.49	12.95	11.49

✓ CEC equivalent available ✓ CEC ⚡ Blue Part No. = Limited Quantity Available

Choose from 2 Models!		Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
Non-CEC P/N	CEC Part No.	Volt (VDC)	Curr. (mA)			1	10	50	100
252794	252795	12	250	2.5x1.1x1.7	0.2	\$9.95	\$8.95	\$7.95	\$6.95
—	252808	12	500	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95
252815	252816	12	600	2.5x1.1x1.7	0.2	11.95	11.49	10.49	9.49
—	252824	12	1000	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
—	252833	12	1250	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
2082071	—	12	2000	2.9x1.3x2.2	0.3	15.95	14.49	12.95	11.49
252891	—	15	500	2.9x1.3x1.7	0.2	11.95	10.95	9.95	8.95
254757	—	15	800	2.9x1.3x2.2	0.2	12.95	11.49	10.49	9.49
—	252904	15	1000	2.9x1.3x2.2	0.3	13.95	12.49	10.95	9.95
252849	—	24	130	2.5x1.1x1.7	0.2	8.95	7.95	6.95	6.25
252858	—	24	250	2.5x1.1x1.7	0.2	10.95	9.95	8.95	7.95
252866	—	24	500	2.9x1.3x2.2	0.3	11.95	10.95	9.95	8.95
—	2076341	24	630	2.9x1.3x2.2	0.3	12.95	11.49	10.49	9.49

⚡ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

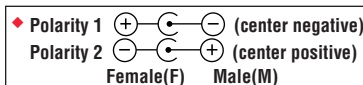
# AC-to-DC Regulated Switching Wall Adapters



## AC-to-DC Regulated Switching Wall Adapters

**We specialize in Wall Adapters – Call for additional OEM PRICING.**  
**We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 126) for just \$2.50 each.**  
**A 100 pc. minimum order applies.**

★ Web Code: CDZ



Female Straight



Female Right Angle



1946121



1707112

Part No.	Manufacturer	Manufacturer Part No.	Output Volt. (VDC)	Output Current (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
1809805	Globtek	WR9HA1000C9P-F(R)	5	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.1 x 1.2 x 1.6	Black	6'	0.2	UL/CUL/CE	\$14.95	\$13.49	\$11.95	\$10.95
1940660	Mean Well	GS06U1P1J	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	15.95	14.49	12.95	11.49
1950981	Philips	AY3192/17	5	2000	1.7mm x 4.0mm F 2	100-240@50-60	3.1 x 1.4 x 1.3	Black	6'	0.3	UL/CUL	12.95	11.49	9.95	8.95
210894	ReliaPro	SYS1193-1005	5	2000	2.1mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	14.95	13.49	11.95	10.95
1940740	Mean Well	GS12U05P1I	5	2000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	4'	0.3	UL/CUL/CEC	17.95	15.95	14.49	12.95
157340	D-Link	AF1205B	5	2000	2.1mm x 5.5mm F 2	100-120@50-60	2.4 x 1.4 x 1.1	Black	6'	0.3	UL/CUL/TUV	12.95	11.49	9.95	8.95
189190	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	17.95	15.95	14.49	12.95
1954199	Mean Well	GS15U-1P1J	5	2400	2.1mm x 5.5mm F 2	90-264@47-63	2.8 x 1.3 x 2.0	Black	6'	0.4	UL/CUL/CEC	22.95	19.95	17.95	15.95
689864	DVE	DSA-0151A-05	5	2400	2.5mm x 5.5mm right angle F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	17.95	15.95	14.95	12.95
1919158	Compaq	281855-001	5	3000	1.3mm x 3.5mm F 2	100-240@50-60	3.1 x 1.4 x 2.2	Black	6'	0.3	UL/CUL/TUV/CE	19.95	17.95	15.95	13.49
1952863	Mean Well	GS18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	4'	0.5	UL/CUL/CEC	24.95	22.49	19.95	17.95
1946121	Protech	BSA-15-105B	5	3000	2.5mm x 5.5mm right angle F 2	100-120@57-63	2.9 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	19.95	17.95	15.95	13.49
379622	Mean Well	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	25.95	23.49	20.95	18.95
379623	Mean Well	GS25U05-P1J	5	4000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	27.95	24.95	22.49	19.95
2082011	Friwo	MPA3U	6	400	2.1mm x 5.5mm right angle F 2	100-240@50-60	2.8 x 2.0 x 0.7	Black	6'	0.3	UL/CUL	14.95	13.49	11.95	10.95
1940678	Mean Well	GS06U-11P1J	7.5	800	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	15.95	14.49	12.95	11.95
1940758	Mean Well	GS12U07/P1I	7.5	1600	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	17.95	15.95	14.49	12.95
380008	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	19.95	17.95	15.95	14.49
380332	Mean Well	ES25U07-P1M	7.5	2930	2.5mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	22.95	19.95	17.95	15.95
1940686	Mean Well	GS06U-2P1J	9	660	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	17.95	15.95	14.49	12.95
1940766	Mean Well	GS12U09-P1I	9	1330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	19.95	17.95	15.95	14.49
1952847	Mean Well	GS18U09-P1J	9	2000	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	20.95	18.95	16.95	14.95
380140	Mean Well	ES25U09-P1M	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	22.95	19.95	17.95	15.95
1940694	Mean Well	GS06U-3P1J	12	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CE	17.95	15.95	14.49	12.95
1955036	Arndt	26092*	12	700	2.1mm x 5.5mm F 2	95-240@47-63	4.0 x 2.3 x 1.1	Black	5.5'	0.4	UL/CUL	12.95	11.49	9.95	8.95
1940774	Mean Well	GS12U12-P1I	12	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	19.95	17.95	15.95	14.49
159354	Group West	TRC-12-1200	12	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.0	Black	6'	0.2	UL/CUL/CE	12.95	11.49	10.49	9.49
1954623	Dee Van	DSA-0151A-12	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.1 x 2.1 x 1.4	Black	6'	0.5	UL/CUL	14.95	13.49	11.95	10.95
1954201	Mean Well	SW15U-3P1J	12	1250	2.1mm x 5.5mm F 2	90-264@47-63	2.8 x 1.3 x 2.0	Black	6'	0.4	UL/CUL/CE	24.95	22.49	19.95	17.95
2082062	Ktec	KSAD1200	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 1.7 x 1.3	Black	4'	0.3	UL/CUL	13.95	12.49	10.95	9.95
2082054	APD	WA-18G12U	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 1.9 x 1.5	Black	6'	0.4	UL/CUL/TUV	15.95	14.49	12.95	11.49
1952855	Mean Well	GS18U12-P1J	12	1500	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE/CEC	17.95	15.95	14.49	12.95
1950497	ReliaPro	SYS1308-2412	12	2000	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.3 x 1.7	Black	6'	0.4	UL/CUL/CE	19.95	17.95	15.95	14.49
2082134	MG Electronics	ST-122A	12	2000	Screw terminals	100-240@50-60	3.8 x 2.1 x 1.6	Black	—	0.4	UL/CUL/CEC	19.95	17.95	15.95	13.95
380156	Mean Well	GS25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE/CEC	22.95	19.95	17.95	15.95
380358	Mean Well	ES25U12-P1M-R0	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.3	UL/CUL/CE	22.95	19.95	17.95	15.95
1940707	Mean Well	GS06U-4P1J	15	400	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	14.95	13.49	11.95	10.95
1707112	Mean Well	SW12U15-P1I	15	800	2.1mm x 5.5mm F 2	100-240@50-60	2.6 x 2.0 x 1.0	Black	6'	0.5	UL/CUL/CE	14.95	13.49	11.95	10.95
1940782	Mean Well	GS12U15-P1I	15	800	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	17.95	15.95	14.49	12.95
1952871	Mean Well	GS18U15-P1J	15	1200	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.4	Black	6'	0.4	UL/CUL/CE/CEC	18.95	16.95	14.95	13.49
380173	Mean Well	ES25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	19.95	17.95	15.95	14.95
1940715	Mean Well	GS06U-5P1J	18	330	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	17.95	15.95	14.49	12.95
1940791	Mean Well	GS12U18-P1I	18	670	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	19.95	17.95	15.95	14.49
380190	Mean Well	ES25U18-P1J	18	1380	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	22.95	19.95	17.95	15.95
380191	Mean Well	GS25U18-P1J	18	1380	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 1.2 x 1.3	Black	6'	0.5	UL/CUL/CEC	24.95	22.49	19.95	17.95
1940723	Mean Well	GS06U-6P1J	24	250	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.3 x 1.9	Black	6'	0.2	UL/CUL/CEC	14.95	13.49	11.95	10.95
1940803	Mean Well	GS12U24-P1I	24	500	2.1mm x 5.5mm F 2	90-264@47-63	2.6 x 1.9 x 1.0	Black	6'	0.3	UL/CUL/CEC	19.95	17.95	15.95	14.49
1952898	Mean Well	GS18U24-P1J	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	22.95	19.95	17.95	15.95
380202	Mean Well	GS25U24-P1J	24	1040	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	24.95	22.49	19.95	17.95
380220	Mean Well	GS25U28-P1J	28	890	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.6	UL/CUL/CEC	22.95	19.95	17.95	15.95
380412	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	17.09	16.55	16.02	15.47
380244	Mean Well	GS25U48-P14J	48	520	2.1mm x 5.5mm F 2	100-240@50-60	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CEC	22.95	19.95	17.95	15.95

\* With light indicator

✓ CEC equivalent available

✓ CEC

◆ Blue Part No. = Limited Quantity Available



**Looking for a Different Output Connector?**  
**We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 126) for just \$2.50 each.**  
**A 100 pc. minimum order applies.**

Jameco ReliaPro

## 3-Prong Wall Adapter Enclosure

- 3-prong power plug and cable strain relief
- Material: noryl • Color: black



Part No.	Style	Size (H x W x D)	1	10	100
115052	Non-vented	3.4" x 2.7" x 2.3"	\$2.75	\$2.39	\$2.19

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# AC-to-DC Unregulated Linear Wall Adapters

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

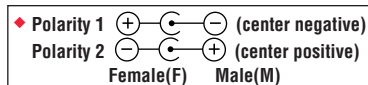
JAMECO ReliaPro



## AC-to-DC Unregulated Linear Wall Adapters

120VAC @ 60Hz

We specialize in Wall Adapters - Call for additional OEM PRICING.



We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 126) for just \$2.50 each. A 100 pc. minimum order applies.



220433



219601

★ Web Code: UAP

Part No.	Manufacturer	Manufacturer Part No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070	ReliaPro	DBU050022Z5480	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$5.95	\$5.35	\$4.79	\$4.39
155601	ReliaPro	DCU050100B3582	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	8.95	7.95	6.95	5.95
1918657	ReliaPro	DDU050100	5	1000	2.5mm x 5.5mm F 2	3.2 x 2.2 x 1.9	Black	6'	0.7	UL/CUL	9.95	8.95	7.95	6.95
237251	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.59	3.19	2.89
302439	Dynage	LF06300D-08	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
119255	ReliaPro	DBU060050Z2251	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
101266	ReliaPro	DBU060050E3860	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
15544	ReliaPro	DBU060050Z8371	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
2081431	PEI	DV-0670-B14	6	700	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	6.95	6.25	5.59	4.79
147707	ReliaPro	DBU060080C6962	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	7.49	6.65	5.95	4.95
220943	ReliaPro	DCU060120G2401	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	8.95	7.95	6.95	5.95
2095154	Thomson	5-2760	7.5	500	2.1mm x 5.5mm right angle F 2	2.5 x .96 x 1.4	Black	6'	0.4	UL/CUL	6.95	6.25	5.59	4.95
220951	ReliaPro	DCU075100G2291	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
248751	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.95	6.25	5.59	4.95
280250	ReliaPro	DDU075110G9521	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	5.95
127511	ReliaPro	DDU080100E2281	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	9.95	8.95	7.95	6.95
355936	ReliaPro	DBU090020	9	200	1.3mm x 3.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
134025	ReliaPro	DBU090020Z6100	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
100845	ReliaPro	DBU090020E0850	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2082556	Thomson	5-2616	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Black	6'	0.5	UL/CUL	4.95	4.49	3.95	3.59
2082548	Atlinks	5-2617	9	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Gray	6'	0.5	UL/CUL	3.95	3.59	3.25	2.95
100837	ReliaPro	DBU090020Z5490	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
2082572	Atlinks	5-2677	9	210	2.1mm x 5.5mm right angle F 2	2.2 x 1.4 x 1.4	Black	6'	0.5	UL/CUL	5.25	4.79	4.25	3.79
133891	ReliaPro	DBU090030C112	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.35	4.79	4.39
318676	ReliaPro	DBU090030H5790	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.39	4.79	4.39
1949120	Various	AD35-0900300DU	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL	4.95	4.49	3.95	3.59
189238	ReliaPro	DBU090030H4540	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	5.95	5.35	4.79	4.39
202155	ReliaPro	DBU090035F1982	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	5.95	5.39	4.79	4.29
1954615	Mei Int.	MADA-2131	9	350	2.5 mm M 1	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	4.95	4.49	3.95	2.95
140636	ReliaPro	DCU090040C6351	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	5.95	5.35	4.79	4.25
163628	ReliaPro	DCU090050Z7484	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
100853	ReliaPro	DCU090050E2961	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
147731	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
236937	ReliaPro	DCU090050G6440	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
1586162	CUI Stack	DPD090050	9	500	3.5mm M 2	2.3 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.95	4.95	4.29	3.69
15561	ReliaPro	DCU090050A2011	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	6.95	6.25	5.59	4.95
202180	ReliaPro	DCU090060F2091	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
100175	ReliaPro	DCU090060Z6652	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
652341	Cidco	SPA-4180-65	9	600	2.5mm x 5.5mm right angle F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	3.95	2.95	2.25
202198	ReliaPro	DCU090080F2221	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	6.95	5.95
421577	Powerline	0900-12	9	850	2.5mm x 5.5mm F 2	2.7 x 2.1 x 1.7	Black	6'	0.8	UL/CSA	6.95	6.25	5.59	5.95
164929	ReliaPro	DDU090100C2550	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	8.95	7.95	6.95	5.95
421690	Fisher Price	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	6.95	5.95	4.95	3.95
364576	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
227774	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	6.95	5.95	4.95
1586082	GTE	ADP2108GT (2.5)	9	1000	2.5mm M 2	2.6 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	6.95	5.95	4.95
127505	ReliaPro	DDU090100	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
15587	ReliaPro	DDU090100Z9081	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	6.95
130526	ReliaPro	DDE090120F3621	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	10.95	9.95	8.95	7.95
143693	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	12.95	11.49	9.95	8.95
163993	ReliaPro	DBU120020E2291	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.49	4.95	4.75	4.29
100095	ReliaPro	DBU120020G0610	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	5.49	4.95	4.75	4.29
158043	ReliaPro	DBU120020E2261	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.95	5.39	4.59	3.95
185658	ReliaPro	DBU120020G1710	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
220433	ReliaPro	DBU120020G1220	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	6.95	6.25	5.59	4.95
219601	ReliaPro	DCU120025G0051	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	6.95	6.25	5.59	4.95
127976	ReliaPro	DCU120030D7161	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	6.95	6.25	5.59	4.95
2082046	Videx	U/090/9	12	300	2.1mm x 5.5mm right angle F 2	2.5 x 1.9 x 1.7	Black	6'6"	0.6	UL/CSA	6.95	6.25	5.59	4.95
249236	ReliaPro	DBU120030G8970	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	6.95	6.25	5.59	4.95
195053	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	7.49	6.95	5.65	4.95
213575	Ault	5312-000-418	12	400	2.5mm x 5.5mm right angle F 1	2.9 x 2.6 x 1.9	Black	12'	0.7	UL/CSA	7.95	7.29	6.59	5.95
114825	ReliaPro	DCU120050D4740	12	500	Stripped & tinned	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	6.29	4.95	4.39	4.19

More AC-to-DC Wall Adapters listed on pages 118, 119, 121 & 122

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

# AC-to-DC Unregulated Linear Wall Adapters

JAMECO ReliaPro

## AC-to-DC Unregulated Linear Wall Adapters (Continued)

★ Web Code: UAP

120VAC @ 60Hz

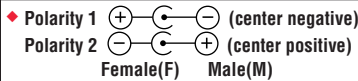
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123158



Part No.	Manufacturer	Manufacturer Part No.	Output Voltage (VDC)	Curr. (mA)	Output Connector ID x OD mm Female/Male; Polarity ◆	Size (H" x W" x D")	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
											1	10	50	100
15368	ReliaPro	DCU120050Z8698	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	\$6.29	\$4.95	\$4.39	\$4.19
305103	Spec-Lin	A1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	6.95	6.25	5.59	4.95
102496	ReliaPro	DCU120050E8601	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
131300	ReliaPro	DCU120050E0251	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
102277	ReliaPro	DCU120050UE2631	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.95
17267	ReliaPro	DCU120050Z5391	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.95	7.29	6.59	5.59
202201	ReliaPro	DCU120060F2131	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.95	7.29	6.59	5.95
202219	ReliaPro	DCU120070F2142	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	8.95	7.95	7.29	6.49
117479	ReliaPro	DDU120080E6451	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
129331	ReliaPro	DDU120080F2412	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	8.95	7.95	7.29	6.49
121232	ReliaPro	DDU120080F2271	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.95	7.25	5.95	5.45
100870	ReliaPro	DDU120100Z7974	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	9.95	8.95	7.95	7.29
105478	ReliaPro	DDU120100Z2993	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
189579	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	8.95	7.95	7.29	6.49
15392	ReliaPro	DDU120100E7302	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
196779	ReliaPro	DDU120120G0031	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
313226	ReliaPro	DFU120150H4490	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	14.95	13.49	11.95	10.95
203036	ReliaPro	DDU120150H4530	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
136881	ReliaPro	DDU120150K1960	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.95	13.49	11.95	10.95
1928151	Leader	481215003CT	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.3 x 2.1	Black	6'	1.5	UL/CUL	12.95	11.49	9.95	8.95
101291	ReliaPro	DDU120150	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	14.95	13.49	11.95	10.95
2077626	Qualcomm	TXACA036	13	1000	2.5mm x 5.5mm F 2 (Switching)	2.7 x 2.4 x 1.6	Black	6'6"	0.6	UL/CE	10.95	9.95	8.95	7.95
308099	ReliaPro	DDU135100H3210	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	10.95	9.95	8.95	7.95
212812	ReliaPro	DBU140020F6022	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	6.95	6.25	5.59	4.95
212821	ReliaPro	DBU140030F6042	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	7.95	7.29	6.59	5.95
129314	Various	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	6.95	5.95	4.95	3.95
123932	ReliaPro	DDU140070Z7470	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.35	8.41	6.89	6.19
202243	ReliaPro	DDU140070-2.5	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	7.95	7.29	6.59	5.95
202260	ReliaPro	DDU140100F3270	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	9.95	8.95	7.95	6.95
190001	ReliaPro	DCU150050E3021	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	7.29	6.59	5.95
189982	ReliaPro	DCU150050E3031	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	7.29	6.59	5.95
155803	ReliaPro	DDU150060E5822	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	7.95	7.29	6.49
203502	ReliaPro	DDU150090F4480	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.95	8.95	7.95	7.29
151992	ReliaPro	DDU150100E8181	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	8.95	7.95	6.95	5.95
191652	ReliaPro	DDU150100D7051	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	10.95	9.95	8.95	7.95
681563	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	9.95	8.95	7.95	6.95
162317	ReliaPro	DDU165050J19910	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	9.95	8.95	7.95	7.29
217541	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F 2	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	6.95	6.25	5.59	4.95
2081713	DVE	DV-1790	17	900	2.5mm x 5.5mm F 2	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	9.95	8.95	7.95	6.95
181729	ReliaPro	DCU180025F8680	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	6.95	6.25	5.59	4.95
217568	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 (w/ LED indicator)	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	7.95	7.29	6.59	5.95
163272	ReliaPro	DDU180050C1031	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	8.95	7.95	7.29	6.49
206958	ReliaPro	DDU180100H4551	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.95	7.95	7.29
102285	ReliaPro	DDU240040Z7860	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.95	7.95	7.29	6.49
163635	ReliaPro	DDU240050C1981	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
191556	ReliaPro	DDU240050E5852	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
139088	ReliaPro	DDU240050E9160	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.95	8.95	7.95	7.29
1918930	ReliaPro	DDU240060L260	24	600	2.1mm x 5.5mm F 2	2.9 x 2.2 x 1.9	Black	6'	0.4	UL/CUL	10.95	9.95	8.95	7.95
168495	ReliaPro	DFU240080J3180	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TVV	11.95	10.95	9.95	8.95
220960	ReliaPro	DFU240100G2300	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	14.95	13.49	11.95	9.95
249121	ReliaPro	DFU240120G8520	24	1150	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	16.95	14.95	13.49	11.95
249113	ReliaPro	DFU240120G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	16.95	14.95	13.49	11.95
199523	ReliaPro	DDU300050E9340	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	9.95	8.95	7.95	7.29
215095	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.95	7.95	7.29	6.49
230640	ReliaPro	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	10.95	9.95	8.95	7.95
215109	ReliaPro	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	10.95	9.95	8.95	7.95
15309	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 120VAC 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.95	8.95	7.95	6.95
123158	ReliaPro	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female 110-220VAC 2.5, 3.5 Male, 9V battery snap (LED ind.)	3.7 x 2.2 x 2.5	Black	6'	0.9	—	10.95	9.95	8.95	7.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# AC-to-DC Wall Adapters & Table-Top Power Supplies

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

JAMECO ReliaPro

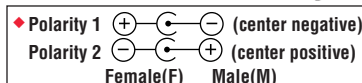


## AC-to-DC Regulated Linear Wall Adapters

★ Web Code: WAZ

We specialize in Wall Adapters – Call for additional OEM PRICING.

We are happy to change any listed DC wall adapter power plug to a connector of your choice (see pg 126) for just \$2.50 each.  
A 100 pc. minimum order applies.



Part No.	Manufacturer	Manufacturer Part No.	Output Rating		Output Connector ID x OD mm Female/Male; Polarity ◆	Input VAC @ Hz	Size (H" x W" x D")	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101	ReliaPro	GPU410500	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	\$9.95	\$8.95	\$7.95	\$6.95
220935	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	12.95	11.49	9.95	8.95
319986	DVE	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	12.95	11.49	9.95	8.95
2081609	Condor	RWP480505	5	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.95	—	—	—
1953612	ReliaPro	DBU0501000	5	1000	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	14.95	13.49	11.95	10.95
168605	ReliaPro	DBU0501000	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	14.95	13.49	11.95	10.95
681571	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	14.95	13.49	11.95	10.95
1919220	Frivo	FE4823	5	1200	2.5mm x 5.5mm F 2	120@60	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
190512	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	9.95	8.95	7.95	6.95
283573	ReliaPro	ADR-6V500MA-2.1	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	10.95	9.95	8.95	7.95
1953701	ReliaPro	ADR-6V500MA-2.5	6	500	2.5mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	10.95	9.95	8.95	7.95
1953719	ReliaPro	DBU0601000	6	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.3	UL/CSA	14.95	13.49	11.95	10.95
190529	ReliaPro	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	9.95	8.95	7.95	6.95
1953621	ReliaPro	DCU09050F1	9	500	2.1mm x 5.5mm F 1	120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
1953639	ReliaPro	DCU09050	9	500	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
1953647	ReliaPro	DCU09050	9	500	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	10.95	9.95	8.95	7.95
2082193	Philips	SPA-3545-81	12	100	2.1mm x 5.5mm F 2	120@60	2.5 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	7.95	6.95	6.25	4.95
220898	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	9.95	8.95	7.95	6.95
1953655	ReliaPro	DDU120050H	12	500	2.1mm x 5.5mm F 1	120@60	2.9 x 2.2 x 1.9	Black	6'	1.3	UL/CSA	10.95	9.95	8.95	7.95
162996	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	10.95	9.95	8.95	7.95
170245	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	14.95	13.49	11.95	10.95
1953663	ReliaPro	DCU1201000	12	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.3 x 2.0	Black	6'	1.2	UL/CSA	14.95	13.49	11.95	10.95
174861	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	12.95	11.49	9.95	8.95
1953680	ReliaPro	DFU240500W	24	500	2.5mm x 5.5mm F 1	120@60	3.1 x 2.2 x 2.0	Black	6'	1.2	UL/CUL	12.95	11.49	9.95	8.95
174879	ReliaPro	DCU090025	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	12.95	11.49	9.95	8.95
1953698	ReliaPro	DFU2401000	24	1000	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CSA	16.95	14.95	13.49	11.95
1953671	ReliaPro	DFU2401000	24	1000	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CSA	16.95	14.49	11.95	10.95

## GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- 2.5mm x 5.5mm female center positive
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5%
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 115078, pg 130
- Isolation voltage: 4,000VAC
- Size: 2.9"L x 2.0"W x 1.6"H
- 3-wire AC input

★ Web Code: WBM



Part No.	Mfr. Part No.	Power (W)	Output VDC/Amps	Pricing			
				1	10	25	100
230683	TR9CE1250CP	15.6	+12/1.3	\$34.95	\$31.95	\$27.95	\$24.95
230763	TR9CE4000LCP	49.2	+12/4.1	49.95	44.95	40.95	36.95
230691	TR9CG1200CP	18.0	+15/1.2	42.95	38.95	34.95	30.95
230772	TR9CG3333LCP	49.5	+15/3.3	49.95	44.95	39.95	35.95
230798	TR9CI2100LCP	50.4	+24/2.1	59.95	53.95	47.95	42.95

JAMECO ReliaPro

## 115 to 16VAC Table-Top Step-Down Adapter

- Input voltage: 120VAC @ 60Hz
- Output watts: 64W
- Output plug: 2.1mm (ID) x 5.5mm (OD)
- Cord (AC/AC): 6'/6'
- Size: 3.7"L x 2.9"W x 2.5"H
- Color: black
- Weight: 2.8 lbs.



Part No.	Mfr. Part No.	Output Volts @ Current	1	10	50
176604	TA661640	16VAC @ 4.0A	\$19.95	\$17.95	\$15.95



## Accessory Power Input Cords for Table-Top Power Supplies



1951123

★ Web Code: RBE

Part No.	Ref. No. *	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
189587	1	2-conductor power cord (Figure 8 style)	Black	18/2	UL/CSA	6'	0.3	SPT	\$2.35	\$2.15	\$1.95	\$1.79
38050	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	4.95	4.49	3.95	3.25
1953559	3	3-conductor flat power cord (Mickey Mouse style)	Black	18/3	UL/CSA	6'	0.4	SPT-2	2.95	2.49	1.95	1.49
1951123	3	3-conductor round power cord (Mickey Mouse style)	Black	18/3	UL/CSA	6'	0.4	SVT	3.95	3.49	2.95	2.49

\*These reference numbers for "AC cord needed" for Table-Top Power Supplies on next 3 pages

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

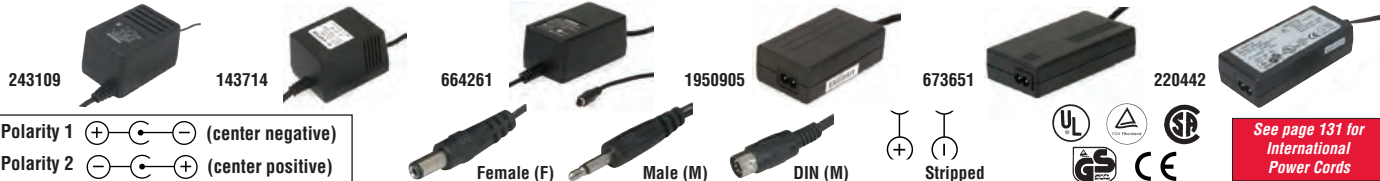
More Power Cords on page 130



# AC-to-DC Regulated & Unregulated Table-Top Power Supplies

## AC-to-DC Regulated & Unregulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 126) for just \$2.50 each. A 100 pc. minimum order applies.



Part No.	Manufacturer	Manufacturer Part No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD/F = female; M = male; Polarity	Input VAC@Hz	Output Pwr (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
2-Wire AC Input – Unregulated Linear Table-Top												* Web Code: TBE			
190051	APS	APS48EA114	+7/1.5	2.5mm x 5.5mm F 2	120@60	10	No	3.4 x 2.3 x 1.9	6/6'	1.9	UL/CUL	\$6.95	\$6.25	\$4.95	\$3.95
243109	Regal	JK-91001-N	+9/1.0	Stripped & Tinned	120@60	9	No	3.3 x 2.2 x 1.9	6/6'	1.2	UL/CSA	6.95	6.25	4.95	3.95
136565	ReliaPro	DDC1210P	+12/1.0	Stripped & Tinned	120@60	12	No	3.2 x 2.2 x 1.9	6/6'	1.2	—	9.95	8.95	7.95	6.95
2081941	Toshiba	AD-121ADT	+12/1.0	2.1mm x 5.5mm F 2	120@60	12	No	3.2 x 2.2 x 1.9	6/6'	1.3	UL/CUL	9.95	8.95	7.95	6.95
140880	ReliaPro	DC1215ST	+12/1.5	Stripped & Tinned	120@60	18	No	3.1 x 2.1 x 1.9	6/6'	1.5	UL	11.95	10.95	9.95	8.95
143714	Horizon	DC1220F1	+12/2.0	2.1mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6/6'	2.2	CUL	14.95	13.49	11.95	10.95
143722	ReliaPro	DC1220F5	+12/2.0	2.5mm x 5.5mm F 2	120@60	24	No	3.8 x 2.8 x 2.3	6/6'	2.2	UL/CUL	14.95	13.49	11.95	10.95
143731	ReliaPro	DC1220M3	+12/2.0	3.5mm M 2	120@60	24	No	3.8 x 2.8 x 2.3	6/6'	1.9	CUL-No UL	14.95	13.49	11.95	10.95
230916	ReliaPro	DC2412F1	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.4 x 3.1 x 2.6	6/6'	2.5	N/A	17.95	15.95	14.49	12.95
1953815	SR Components	DC24-1.2	+24/1.2	2.1mm x 5.5mm F 2	120@60	29	No	4.5 x 3.4 x 2.6	5/6'	0.7	UL	19.95	17.95	15.95	13.95
173665	Skynet	DND-3005	+30/0.5	2.5mm x 5.5mm F 2	120@60	15	No	3.0 x 2.5 x 2.2	5/9'3/2"	1.4	UL/CUL	10.95	9.95	8.95	7.95
2-Wire AC Input – Regulated Linear Table-Top												* Web Code: CEM			
664261	Intermec	062035	+5/0.75	4-pin DIN M	120@60	3.75	No	4.4 x 2.5 x 2.0	6/6'	1.6	UL/CSA	\$6.95	\$6.25	\$4.95	\$3.95
174845	ReliaPro	DCR2410F12	+24/1	2.1mm x 5.5mm F 2	120@60	24	No	4.4 x 3.0 x 2.5	6/6'	2.6	UL	17.95	15.95	14.49	12.95
2-Wire AC Input – Regulated Switching Table-Top – Single Output												* Web Code: DDZ			
153752	Cisco	34-0912-02	+5/2.5	2.5mm x 5.5mm F 2	100-240@50-60	13	No	3.5 x 2.2 x 1.2	6/1 <sup>2</sup>	0.5	UL/CULTUV/CE	\$13.95	\$12.49	\$10.95	\$9.95
1586242	Phihong	PSAA15W-050-R	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.2 x 2.0 x 1.2	6/1 <sup>—</sup>	0.5	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
1940299	Mean Well	GS18B05-P1J	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	4/1 <sup>—</sup>	0.5	UL/CSA/TUV/CEC	19.95	17.95	15.95	13.95
155205	ITE Power	SYS1102-2005	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	4.0 x 2.0 x 1.3	3/6' <sup>1</sup>	0.7	UL/CUL/TUV/CE	15.95	13.95	12.49	10.95
379612	Mean Well	ES25B05-P1JU	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.5	UL/CSA/TUV/CE	16.95	14.95	13.49	11.95
377925	Mean Well	P30B-1P2JU	+5/4.0	2.1mm x 5.5mm F 2	90-264@47-63	20	Yes	4.3 x 2.6 x 1.4	6/6'	0.7	UL/CSA/TUV/CE	24.95	22.49	19.95	17.95
380621	Mean Well	ES25B05-P1MU	+5/4.0	2.5mm x 5.5mm F 2	90-264@47-63	20	Yes	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/TUV/CE	19.95	17.95	15.95	13.95
1940301	Mean Well	GS1807-P1J	+7.5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.5	UL/CSA/TUV/CEC	19.95	17.95	15.95	13.95
1707067	Mean Well	ES25B07-P1J	+7.5/2.93	2.1mm x 5.5mm F 2	100-240@50-60	22	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.4	UL/CUL/TUV/CE	12.95	11.49	9.95	8.95
195806	Horizon	DCR920F12	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	4.2 x 2.6 x 1.4	6/6'	0.9	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
195768	ReliaPro	DCR920F52	+9/2.0	2.5mm x 5.5mm F 2	100-240@50-60	18	Yes	4.3 x 2.6 x 1.4	6/6'	0.9	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
380681	Mean Well	ES25B09-P1MU	+9/2.78	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/TUV/CE	27.95	24.95	22.49	19.95
379787	Mean Well	P30B-2P2MU	+9/2.89	2.5mm x 5.5mm F 2	90-264@47-63	26	Yes	4.3 x 2.6 x 1.4	6/6'	0.7	UL/CSA/TUV/CE	29.95	26.95	23.95	21.95
1950905	APS	AD715U-1121	+12/1.2	2.5mm x 5.5mm F 2	100-240@50-60	15	No	3.7 x 2.1 x 1.3	6/1 <sup>—</sup>	0.5	UL/CUL/TUV/CE	13.95	12.49	10.95	9.95
191353	Delta	ADP-15FB	+12/1.25	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.5 x 2.3 x 1.2	6/1 <sup>—</sup>	0.5	UL/CE	14.95	13.49	11.95	10.95
1943043	Fairway	VE15B-120	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.1	6/1 <sup>—</sup>	0.5	UL/CE/TUV	19.95	17.95	15.95	13.95
1940328	Mean Well	GS18B12-P1J	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/CE/CEC	19.95	17.95	15.95	14.49
673651	Artesyn	SSL20C-7612	+12/1.67	2.5mm x 5.5mm F 2	100-240@50-60	20	No	4.6 x 2.4 x 1.1	3/3' <sup>1</sup>	0.4	UL/CSA/VDE	14.95	13.49	11.95	10.95
1537555	APD	DA-24B12	+12/2.0	2.5mm x 5.5mm F 2	100-240@47-63	24	No	3.6 x 2.2 x 1.3	6/1 <sup>—</sup>	0.4	UL/CUL/TUV/CE	17.95	15.95	14.49	12.95
379795	Mean Well	P30B-3P2MU	+12/2.25	2.5mm x 5.5mm F 2	90-264@47-63	27	Yes	4.3 x 2.6 x 1.4	6/6'	0.7	UL/CSA/TUV/CE	29.95	26.95	23.95	21.95
220442	ReliaPro	SL120300RT	+12/3.0	2.5mm x 5.5mm F 2	100-240@50-60	36	Yes	4.3 x 2.0 x 1.2	6/1 <sup>—</sup>	0.6	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
1940336	Mean Well	GS18B15-P1JT	+15V/1.2	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/CEC	24.95	22.49	19.95	17.95
1537070	Phihong	PSA15W-150R	+15/1.25	2.5mm x 5.5mm F 2	100-240@47-63	15	No	4.3 x 2.6 x 1.0	6/1 <sup>—</sup>	0.8	UL/CUL/TUV/CE	17.95	15.95	14.49	12.95
1940521	Mean Well	GS25B15-P1JT	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/CEC	24.95	22.49	19.95	17.95
1940539	Mean Well	GS25B18-P1J	+18/1.38	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/TUV/CEC	22.95	19.95	17.95	15.95
380729	Mean Well	ES25B18-P1MU	+18/1.38	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/TUV/CE	22.95	19.95	17.95	15.95
1940352	Mean Well	GS18B24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.5	UL/CSA/TUV/CEC	22.95	19.95	17.95	15.95
1940547	Mean Well	GS25B24-P1JT	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.5	UL/CSA/TUV/CE/CEC	24.95	22.49	19.95	17.95
221613	Mean Well	P30B-6P2JT	+24/1.12	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.3 x 2.6 x 1.4	6/6'	0.8	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
229843	Phihong	PSAA60W-240	+24/2.5	2.1mm x 5.5mm F 2	100-240@47-63	60	No	5.1 x 2.4 x 1.3	4/1 <sup>—</sup>	0.5	UL/CSA/CEC	36.95	33.95	31.95	28.95
1707075	Mean Well	ES18B28-P1J	+28/0.64	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.5	UL/CUL/TUV/CE	10.95	9.95	8.95	7.95
205911	Delta	ADP-25HB	+30/0.83	2.1mm x 5.5mm F 2	100-125@50-60	25	No	3.5 x 2.4 x 1.2	6/7'	1.1	UL/CUL	10.95	9.95	8.95	7.95
1940379	Mean Well	GS18B48-P1JT	+48/0.37	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/CEC	24.95	22.49	19.95	17.95
1707139	Mean Well	ES25B48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.1 x 2.1 x 1.3	6/1 <sup>—</sup>	0.4	UL/CUL/TUV/CE	19.95	17.95	15.95	14.49
380809	Mean Well	ES25B48-P1MU	+48/0.52	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.1 x 2.1 x 1.3	6/6'	0.5	UL/CSA/TUV/CE	19.95	17.95	15.95	14.49
2-Wire AC Input – Regulated Switching Table-Top – Triple Output												* Web Code: DDZ			
196138	DVE	DSA-0283A	+5/1, +12/1.49 -5/0.43	5-pin DIN M	100-240@47-63	23	No	4.9 x 2.7 x 1.5	6/1 <sup>—</sup>	0.8	UL/CSA/TUV	\$9.95	\$8.95	\$7.95	\$6.95

\* See accessory table-top power cord chart on pg 122 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right angle ⚙ Blue Part No. = Limited Quantity Available

✓ CEC Equivalent available

CEC

3-Wire Regulated Table-Top Power Supplies on Next Page

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



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# AC-to-DC Regulated Switching Table-Top Power Supplies

3 LEVELS OF SAVINGS		
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## AC-to-DC Regulated Linear & Switching Table-Top Power Supplies

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 126) for just \$2.50 each. A 100 pc. minimum order applies.

See page 131 for International Power Cords

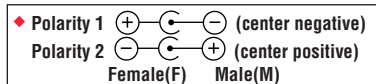
689661

309876

221488

1950884

1586146



Female (F)

Male (M)

DIN (M)



Part No.	Manufacturer	Manufacturer Part No.	Output Volts (VDC)/ Current (A)	Output Connector ID x OD mm Female/Male; Polarity	Input VAC@Hz	Output Pwr (W)	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
												1	10	50	100
3-Wire AC Input – Regulated Linear Table-Top – Double & Quad Output												* Web Code: CEM			
689661	Regal	R1JG-5500	+5/1; -5/0.5	5-pin DIN M	120@60	30	No	5.1 x 3.6 x 2.8	6'6"	2.7	UL	\$12.95	\$11.49	\$9.95	\$8.95
689653	Regal	RJM-551228	+5/0.9; -5/0.2; +12/62; -28/16	6-pin DIN M	120@60	55	No	5.1 x 3.6 x 2.8	6'6"	1.3	CUL	14.95	13.49	11.95	10.95
3-Wire AC Input – Regulated Switching Table-Top – Single Output												* Web Code: DDZ			
1928863	DVE	DSA0210D-03	+3.3/4.0	2.5mm x 5.5mm F 2	100-240@50-60	13	No	3.9 x 2.0 x 1.4	4'7"	0.5	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
308700	Be-Well	ZD0001F	+5/1.0	2.1mm x 5.5mm F 2	100-240@50-60	5	No	4.2 x 2.0 x 1.6	6'7"	0.4	UL/CUL/TUV/CE	8.95	7.95	6.95	5.95
1918737	Magtech	SPU15A-102	+5/1.0	2.5mm x 5.5mm F 2	100-240@47-63	5	Yes	3.6 x 1.5 x 1.4	6'7"	0.4	UL/CUL/TUV/CE	9.95	8.95	7.95	6.95
1952169	Go Forward	91-58414	+5/2.0	1.3mm x 3.5mm F 2	100-240@50-60	10	No	2.6 x 1.9 x 1.3	6'7"	0.4	UL/CUL/TUV/CE	12.95	11.49	9.95	8.95
309876	Go Forward	GI12-US0520	+5/2.0	2.1mm x 5.5mm F 2	100-240@50-60	10	No	2.6 x 1.9 x 1.3	6'7"	0.4	UL/CUL/TUV/CE	12.95	11.49	9.95	8.95
196218	GlobTek	GT210891005T3	+5/2.0	2.1mm x 5.5mm F 2	120-240@50-60	10	No	3.4 x 1.9 x 1.3	6'7"	0.4	UL/CUL/TUV/CE	17.95	15.95	13.95	11.95
1955642	Delta	ADP-105B	+5/2.0	2.5mm x 5.5mm F 2	100-240@50-60	10	No	3.3 x 1.9 x 1.2	6'7"	0.3	UL/CUL/CE	14.95	13.49	11.95	10.95
1954236	Mean Well	GS15A-1P1J	+5/2.4	2.1mm x 5.5mm F 2	90-264@47-63	12	No	3.9 x 2.3 x 1.3	6'7"	0.4	UL/CUL/TUV/CEC	21.95	19.95	17.95	15.95
1940387	Mean Well	GS18A05-P1JU	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	Yes	3.7 x 2.1 x 1.4	4'6"	0.5	UL/CUL/TUV/CE/CEC	22.95	20.95	16.49	14.95
377845	Mean Well	ES18A05-P1JU	+5/3.0	2.1mm x 5.5mm F 2	100-240@50-60	15	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	22.95	20.95	17.95	15.95
1940571	Mean Well	GS25A05-P1J	+5/4.0	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	3.7 x 2.1 x 1.4	4'7"	0.5	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1952337	Mean Well	GS40A05-P1JU	+5/5.0	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	4.9 x 2.0 x 1.2	4'7"	0.7	UL/CSA/TUV/CEC	34.95	31.49	27.95	24.95
320081	GlobTek	TR9CA6000LCP-Y	+5/6.0	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	4.7 x 2.4 x 1.3	6'7"	0.7	UL/CUL/TUV/CE	44.95	39.95	35.95	32.95
221488	Mean Well	SPU50-1U	+5/10.0	5-pin DIN M	100-240@50-60	50	Yes	5.7 x 3.0 x 1.7	6'6"	2.0	UL/CUL/TUV/CE	59.95	53.95	47.95	42.95
379751	Mean Well	P30A-1-P2MU	+7.5/3.06	2.5mm x 5.5mm F 2	90-264@47-63	23	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	24.95	22.49	19.95	17.95
206529	Mean Well	GS40A07-P1J	+7.5/5.34	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6'6"	1.5	UL/CUL/TUV/CE	34.95	31.95	28.95	26.95
1940408	Mean Well	GS18A09-P1JU	+9/2.0	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
379736	Mean Well	ES18A09-P1MU	+9/2.0	2.5mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	23.95	21.49	18.95	17.49
211027	Mean Well	KA52B25-MODU	+9/2.78	2.1mm x 5.5mm F 2	100-240@47-63	25	No	4.2 x 2.6 x 1.5	6'7"	0.9	CSA/TUV/CE	14.95	13.49	11.95	10.95
1940213	EDAC, Inc.	EA10302	+9/3.3	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.9 x 1.8 x 1.2	4'7"	0.5	UL/CUL/TUV/CE	17.95	15.95	13.95	11.95
1952361	Mean Well	GS60A09-P1J	+9/6.0	2.1mm x 5.5mm F 2	90-264@47-63	54	Yes	4.9 x 2.0 x 1.3	4'7"	0.7	UL/CUL/TUV/CEC	49.95	44.95	39.95	36.95
1955651	ELPAC	W0812	+12/0.67	2.5mm x 5.5mm F 2	100-240@47-63	8	No	3.3 x 1.9 x 1.2	6'6"	0.8	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
1928417	Mean Well	GI12-US1210	+12/1.0	2.1mm x 5.5mm F 2	100-240@50-60	12	No	2.9 x 1.9 x 1.3	6'7"	0.3	UL/CSA/TUV/CE	14.95	13.49	11.95	10.95
1954244	Mean Well	GS15A-3P1J	+12/1.25	2.1mm x 5.5mm F 2	90-264@47-63	15	No	3.9 x 2.3 x 1.3	6'7"	0.4	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1940416	Mean Well	GS18A12-P1JU	+12/1.5	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV/CEC	23.95	20.95	16.95	14.95
616216	Potrans	UP01831120	+12/1.5	2.5mm x 5.5mm F 1	90-264@50-60	18	No	3.7 x 2.3 x 1.4	6'7"	0.5	UL/CUL/TUV/CE	19.95	17.95	15.95	14.49
1928425	ITE	NL20-120160-11	+12/1.6	2.1mm x 5.5mm F 2	100-240@50-60	19	Yes	4.3 x 1.8 x 1.2	6'7"	0.2	UL/CSA/TUV/CE	14.95	13.49	11.95	10.95
1537432	Eng Electric	EPA-201D-12	+12/1.66	2.1mm x 5.5mm F 2	100-240@50-60	20	Yes	4.3 x 2.4 x 1.3	6'7"	0.2	UL/CSA/TUV/CE	19.95	17.95	15.95	13.95
379779	Mean Well	ES25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	23.95	21.49	18.95	16.95
1940601	Mean Well	GS25A12-P1JU	+12/2.08	2.1mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	4'6"	0.5	UL/CUL/TUV/CEC	24.95	22.49	17.49	15.95
380534	Mean Well	ES25A12-P1MU	+12/2.08	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	24.95	22.95	19.95	17.95
1950884	APS	AD725U-1120A	+12/2.1	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.8 x 2.1 x 1.3	6'7"	0.5	UL/CUL/TUV/CE	19.95	17.95	13.95	11.95
1586277	Phihong	PSC30U-120-R	+12/2.5	2.1mm x 5.5mm F 2	100-240@50-60	30	No	3.9 x 2.2 x 1.2	5'7"	0.6	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
1918690	First Vision	SA06H12-A	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	3.7 x 2.0 x 1.4	4'7"	0.6	UL/CUL/TUV/CE	12.95	11.49	10.95	9.95
1942147	Jentec	SA06H1217-A	+12/2.5	2.5mm x 5.5mm F 2	100-240@50-60	30	Yes	3.7 x 2.0 x 1.4	6'7"	0.6	UL/CUL/TUV/CE	14.95	13.49	11.95	10.95
1942155	Jentec	JTA0210P	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	Yes	4.3 x 2.0 x 1.2	4'7"	0.6	UL/CUL/TUV/CE	17.95	15.95	13.95	11.95
401042	ReliaPro	ADPV16	+12/3.0	2.1mm x 5.5mm F 2	100-240@50-60	36	No	3.9 x 1.8 x 1.2	4'7"	0.5	UL/CUL/TUV/CE	22.95	20.49	18.95	16.95
1586146	EDAC, Inc.	EA10301	+12/3.0	2.5mm x 5.5mm F 2	100-240@50-60	36	Yes	3.8 x 1.8 x 1.2	6'7"	0.7	UL/CUL/TUV/CE	19.95	17.95	15.95	13.95
155214	Mean Well	P40A-3P2JU	+12/3.33	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/TUV	39.95	35.95	32.95	29.95
1708625	HiPro	HP02040043	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.4 x 1.2	5'7"	0.7	UL/CUL/TUV/CE/CEC	19.95	17.95	15.95	13.95
297693	Mean Well	P40A-3P2MU-R	+12/3.33	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/TUV/CE	39.95	35.95	32.95	29.95
1952345	Mean Well	GS40A12-P1J	+12/3.4	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.3	4'7"	0.7	UL/CUL/TUV/CEC	39.95	35.95	32.95	29.95
1940264	EDAC, Inc.	EA1050E	+12/3.5	2.1mm x 5.5mm F 2	100-240@50-60	42	Yes	4.7 x 2.4 x 1.4	4'7"	0.6	UL/CUL/TUV/CE	24.95	22.49	19.95	17.95
1940272	EDAC, Inc.	EA1050C	+12/4.16	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	4'7"	0.6	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
1586314	Phihong	PSC60M-120-R	+12/5.0	2.1mm x 5.5mm F 2	100-240@50-60	60	No	5.1 x 2.4 x 1.3	4'7"	0.7	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
1952370	Mean Well	GS60A12-P1JU	+12/5.0	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 1.9 x 1.2	4'7"	0.7	UL/CUL/TUV/CEC	49.95	44.95	40.95	35.95
155231	Mean Well	SPU50-3U	+12/5.0	2.1mm x 5.5mm F 2	100-240@47-63	60	Yes	5.7 x 3.0 x 1.7	6'6"	1.3	UL/CSA/TUV	59.95	53.95	48.95	43.95
376607	Mean Well	P66A-3P2JU	+12/5.5	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6'6"	1.2	UL/CSA/TUV/CEC	59.95	53.95	48.95	43.95

\* See accessory table-top power cord chart on page 122 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right angle

✓ CEC Equivalent available



3-Wire Regulated Table-Top Power Supplies continued on next page

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

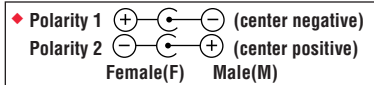
Details on page 190.

# AC-to-DC Regulated Switching Table-Top Power Supplies

## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see pg 126) for just \$2.50 each. A 100 pc. minimum order applies.

See page 131 for  
International Power Cords



243012



297757



1537125



1707083



229032



Female (F)

Male (M)

DIN (M)



\* Web Code: DDZ

Part No.	Manufacturer	Manufacturer Part No.	Output	Output Connector	Input VAC@Hz	Output	LED Ind.	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
			Volts (VDC)/ Current (A)	ID x OD mm Female/Male; Polarity		Pwr (W)						1	10	50	100
3-Wire AC Input – Regulated Switching Table-Top – Single Output (Continued)															
2078291	Mean Well	GS90A12-P1M	+12/6.67	2.5mm x 5.5mm F 2	100-240@50-60	80	Yes	5.7 x 2.3 x 1.3	4'/2	0.9	UL/CUL/TUV/CEC	\$69.95	\$62.95	\$56.95	\$49.95
221429	Mean Well	U6S510S-P2JU	+12/6.7	2.1mm x 5.5mm F 2	100-240@50-60	80	Yes	6.6 x 3.1 x 1.8	6'6"	2.0	UL/CUL/TUV/CE	69.95	62.95	56.95	49.95
1940846	Mean Well	AS-120P-12	+12/8.4	4-pin DIN M	100-240@50-60	100	No	6.6 x 2.6 x 1.4	4'/2	1.2	UL/CUL/TUV/CE	79.95	71.95	64.95	59.95
1954261	Mean Well	GS15A-4P1J	+15/1.0	2.1mm x 5.5mm F 2	100-240@50-60	15	No	3.1 x 2.3 x 1.3	6'/2	0.5	UL/CUL/TUV/CEC	19.95	17.95	15.95	14.49
1940432	Mean Well	GS18A15-P1JU	+15/1.2	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV/CEC	22.95	20.49	18.95	16.95
1940619	Mean Well	GS25A15-P1J	+15/1.66	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6'/2	0.5	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
380542	Mean Well	ES25A15-P1MU	+15/1.66	2.5mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	24.95	22.49	19.95	17.95
243012	Mean Well	P30A-41P2JU	+15/1.8	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.2 x 2.6 x 1.4	6'6"	0.8	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
221577	Mean Well	GS40A15-P1J	+15/2.67	2.1mm x 5.5mm F 2	90-264@50-60	40	Yes	4.9 x 2.0 x 1.3	6'/2	0.8	UL/CUL/TUV/CE/CEC	34.95	34.49	28.95	25.95
391743	Mean Well	P66A-4P2JU	+15/4.4	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6'6"	1.2	UL/CSA/TUV/CE	39.95	35.95	32.49	28.95
2078320	Mean Well	GS90A15-P1M	+15/6.0	2.5mm x 5.5mm F 2	100-240@50-60	90	Yes	5.7 x 2.3 x 1.3	39'/2	0.8	UL/CUL/TUV/CEC	49.95	44.95	39.95	35.95
1940854	Mean Well	AS-120P-15	+15/6.7	4-pin DIN M	100-240@50-60	100	No	6.6 x 2.6 x 1.4	4'/2	1.2	UL/CUL/TUV/CE	79.95	71.95	64.95	57.95
379841	Mean Well	ES25A18-P1JU	+18/1.38	2.1mm x 5.5mm F 2	90-264@47-63	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	19.95	17.95	15.95	14.49
243046	Mean Well	P66A-5P2JU	+18/3.66	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6'6"	1.2	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
148267	AcBell	AP13AD02	+19/3.42	2.5mm x 5.5mm F 2	100-240@50-60	65	No	4.2 x 1.8 x 1.1	6'/3	0.8	UL/CUL/TUV/CE	39.95	35.95	32.95	28.95
1954279	Mean Well	GS15A-6P1J	+24/0.62	2.1mm x 5.5mm F 2	90-264@47-63	12	No	3.9 x 2.3 x 1.3	6'/2	0.4	UL/CUL/TUV/CEC	22.95	20.49	18.95	16.95
1940459	Mean Well	GS18A24-P1J	+24/0.75	2.1mm x 5.5mm F 2	100-240@50-60	18	Yes	3.7 x 2.1 x 1.4	6'/2	0.5	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1940635	Mean Well	GS25A24-P1JU	+24/1.04	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV/CEC	26.95	23.95	21.49	18.95
380577	Mean Well	ES25A24-P1MU	+24/1.04	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	26.95	23.95	21.49	18.95
1940230	EDAC, Inc.	EA1030D2	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	Yes	3.9 x 1.8 x 1.2	4'/1	0.5	UL/CUL/TUV/CE	22.95	19.95	17.95	15.95
229026	Phihong	PSC30U-240-R	+24/1.25	2.1mm x 5.5mm F 2	100-240@50-60	30	No	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
1952353	Mean Well	GS40A24-P1J	+24/1.67	2.1mm x 5.5mm F 2	90-264@47-63	40	Yes	4.9 x 2.0 x 1.2	6'/2	0.7	UL/CUL/TUV/CEC	31.95	28.95	25.95	22.95
1537256	Ault	PW125RA2403F2	+24/1.7	2.5mm x 5.5mm F 2	100-250@50-60	41	Yes	3.9 x 2.6 x 1.7	6'/2	0.7	UL/CUL/TUV/CE	24.95	22.49	19.95	15.95
297757	Mean Well	P40A-6P2MU	+24/1.7	2.5mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CUL/VDE/CE	34.95	31.49	28.95	25.95
1940281	EDAC, Inc.	EA1050D	+24/2.08	2.1mm x 5.5mm F 2	100-240@50-60	50	Yes	4.7 x 2.4 x 1.4	4'/2	0.6	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
1537125	EDAC, Inc.	EA1050B-240	+24/2.5	2.1mm x 5.5mm F 2	100-240@47-63	60	Yes	4.8 x 2.4 x 1.4	6'/2	1.8	UL/CUL/TUV/CE	36.95	32.95	25.95	25.45
1942788	EDAC, Inc.	EA1050B240	+24/2.5	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6'/2	1.8	UL/CUL/TUV/CE/CEC	29.95	26.95	23.95	21.49
1952214	Mean Well	GS60A24-P1JU60	+24/2.5	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.3	6'6"	0.7	UL/CUL/TUV/CEC	39.95	35.95	32.95	29.95
161606	Mean Well	SPU50-6U-R	+24/2.5	2.1mm x 5.5mm F 2	100-240@47-63	60	Yes	5.6 x 2.9 x 1.6	6'6"	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
1950913	EDAC, Inc.	EA1050B-240-1	+24/2.5	2.5mm x 5.5mm F 2	100-240@50-60	60	Yes	4.8 x 2.4 x 1.4	6'/2	1.8	UL/CUL/TUV/CE	39.95	35.95	32.49	28.95
355056	ReliaPro	JR-TT-66-24	+24/2.75	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6'/2	1.2	UL/CUL/TUV/CE	44.95	40.95	36.95	32.95
2078338	Mean Well	GS90A24-P1M	+24/3.75	2.5mm x 5.5mm F 2	100-240@50-60	90	No	5.9 x 2.3 x 1.2	4'/2	0.9	UL/CUL/TUV/CEC	59.95	53.95	47.95	43.95
1940871	Mean Well	AS-120P-24	+24/5.0	2.5mm x 5.5mm F 2	100-240@50-60	120	No	6.6 x 2.6 x 1.4	4'/2	1.2	UL/CUL/TUV/CE	69.95	62.95	56.95	49.95
1707083	Mean Well	ES18A28-P1J	+28/0.64	2.1mm x 5.5mm F 2	100-264@47-63	18	Yes	3.7 x 2.1 x 1.4	6'/2	0.5	UL/CUL/TUV/CB/CE	14.95	13.49	11.95	10.95
1940643	Mean Well	GS25A28-P1JU	+28/0.89	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6'6"	0.7	UL/CUL/TUV/CEC	29.95	26.95	23.95	21.95
1940475	Mean Well	GS18A48-P1JU	+48/0.37	2.1mm x 5.5mm F 2	100-240@50-60	18	No	3.6 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV/CEC	24.95	22.49	19.95	17.95
379903	Mean Well	ES25A48-P1JU	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6'6"	0.5	UL/CUL/TUV	19.95	17.95	15.95	13.95
1940651	Mean Well	GS25A48-P1J	+48/0.52	2.1mm x 5.5mm F 2	100-240@50-60	25	No	3.7 x 2.1 x 1.4	6'/2	0.5	UL/CUL/TUV/CEC	27.95	24.95	22.95	19.95
380606	Mean Well	ES25A48-P1MU	+48/0.52	2.5mm x 5.5mm F 2	100-240@50-60	25	Yes	3.7 x 2.1 x 1.4	6'6"	0.6	UL/CSA/TUV/CE	19.95	17.95	15.95	13.95
215088	Mean Well	P30A-8P2JU	+48/0.56	2.1mm x 5.5mm F 2	100-240@50-60	27	Yes	4.3 x 2.6 x 1.4	6'6"	0.7	UL/CSA/TUV/CE	29.95	26.95	23.95	21.95
229032	Phihong	PSA31U-480	+48/0.63	2.1mm x 5.5mm F 2	90-264@47-63	30	No	4.5 x 2.4 x 1.6	6'/2	0.5	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
221584	Mean Well	P40A-8P2JU	+48/0.8	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.3 x 2.6 x 1.4	6'6"	0.8	UL/CUL/TUV/CE	34.95	31.49	28.95	25.95
221585	Mean Well	GS40A48-P1J	+48/0.84	2.1mm x 5.5mm F 2	100-240@50-60	40	Yes	4.9 x 2.0 x 1.3	6'6"	0.8	UL/CUL/TUV/CE	39.95	35.95	32.95	29.95
172065	Mean Well	SPU50-9U	+48/1.25	2.1mm x 5.5mm F 2	100-240@50-60	60	Yes	5.6 x 2.9 x 1.7	6'6"	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
1952396	Mean Well	GS60A48-P1JU	+48/1.25	2.1mm x 5.5mm F 2	90-264@47-63	60	Yes	4.9 x 2.0 x 1.2	6'6"	0.7	UL/CUL/TUV/CE/CEC	49.95	44.95	39.95	35.95
376615	Mean Well	P66A-8P2JU	+48/1.37	2.1mm x 5.5mm F 2	100-240@50-60	66	Yes	5.8 x 3.0 x 1.7	6'6"	1.2	UL/CSA/TUV/CE	59.95	53.95	47.95	42.95
379681	Mean Well	P66A-8P2MU	+48/1.37	2.5mm x 5.5mm F 2	90-264@47-63	66	Yes	5.8 x 3.0 x 1.7	6'6"	1.2	UL/CSA/TUV/CE	59.95	44.95	47.95	42.95
3-Wire AC Input – Regulated Switching Table-Top – Double Output															
196270	ReliaPro	PSU25A13	+5/2.5, +12/1.0	4-pin mini DIN M	100-240@47-63	25	No	4.2 x 2.6 x 1.4	6'4"	1.2	UL/CUL/TUV/CE	\$32.95	\$29.95	\$26.95	\$23.95
221720	Mean Well	P25A14E-R1BU	+5/2.5, ±15/0.3	5-pin DIN M	100-240@50-60	25	Yes	4.3 x 2.6 x 1.4	6'6"	0.8	UL/CUL/TUV/CE	34.95	31.49	28.95	25.95

\* See accessory table-top power cord chart on page 122 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right Angle

✓ CEC Equivalent available. Add an "C" before part number for CEC version.

3-Wire Regulated Table-Top Power Supplies continued on next page

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



# Table-Top Power Supplies, Power Plugs, Adapters & Jacks

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

We are happy to change the power plug on any listed table-top power supply to a connector of your choice (see below) for just \$2.50 each. A 100 pc. minimum order applies.

Part Number	Manufacturer	Manufacturer Part No.	Output	Output Connector	Input	Output	LED	Size	Cords	Wt.	Agency	Pricing			
			Volts (VDC)/ Current (A)	ID x OD mm Female/Male; Polarity		VAC@Hz						Pwr (W)	Ind.	(L" x W" x H")	(DC/AC)
3-Wire AC Input – Regulated Switching Table-Top – Triple Output															
190960	Mean Well	P25A13D-R1U	+5/2.5, +12/0.8, -12/0.3	5-pin DIN M	100-240@50-60	26	Yes	4.1 x 2.6 x 1.4	6'6"	1.1	CUL/TUV/CE	\$39.95	\$35.95	\$32.95	\$29.95
221702	Mean Well	P50A13D-R1BU	+5/4.0, +12/2.0, -12/0.5	5-pin DIN M	100-240@50-60	50	Yes	5.7 x 3.0 x 1.7	4'6"	1.5	UL/CUL/TUV/CE	49.95	44.95	40.95	36.95
237367	Mean Well	P50A14E-R1BU	+5/3.5; +15/1.2, -15/0.3	5-pin DIN M	100-240@47-63	42	Yes	5.8 x 3.0 x 1.7	4'6"	1.2	UL/CUL/TUV/CE	54.95	49.95	44.95	40.95

## DC Power Plugs & Adapters

\* Web Code: MFP

Part No.	Manufacturer	Product No.	Fig.	Description (Barrel) Plug ID x OD x L (mm)	Strain Relief ID x L (mm)	1	10	100
<b>Female Plugs</b>								
71192	ValuePro	PP137	1	1.3 x 3.45 x 9.5	4.1 x 12 (black)	.79	.69	.65
191484	ValuePro	PP049W	1	2.1 x 5.5 x 9.0	4.6 x 12.5 (white)	.69	.59	.55
2004890	ValuePro	PP049S	1	2.1 x 5.5 x 9.5	4.5 x 12.5 (black)	.79	.69	.65
297617	Switchcraft	S760	3	2.1 x 5.5 x 9.5	5.5 x 25 (black)	2.95	2.49	2.25
28760	ValuePro	PP049	1	2.1 x 5.5 x 10 (P205)	4.1 x 12 (black)	.79	.69	.55
138587	ValuePro	PJ021R	2	2.1 x 5.5 x 12 (rt. angle)	2.8 x 11 (black)	.89	.79	.65
147329	ValuePro	PP049L	1	2.1 x 5.5 x 14 (P205L)	4.3 x 12 (black)	.89	.79	.65
190538	ValuePro	PP109S	1	2.5 x 5.5 x 9.5	5.0 x 13 (black)	.59	.55	.49
281877	Switchcraft	760	3	2.5 x 5.5 x 9.5	5.5 x 25 (black)	2.95	2.49	2.19
28768	ValuePro	PP109	1	2.5 x 5.5 x 10 (P206)	4.2 x 12 (black)	.79	.69	.59
147336	ValuePro	PP109L+	1	2.5 x 5.5 x 14 (P206L)	4.2 x 12 (black)	.79	.69	.59
168242	ValuePro	PP109N	3	2.5 x 5.5 x 14	3.9 x 22 (black)	.69	.59	.55
<b>Male Plugs</b>								
101135	ValuePro	PJ1025	4	— x 2.5 x 11 (P201)	4.3 x 13 (black)	.79	.69	.55
231176	ValuePro	AP-340	4	— x 3.5 x 14 (stereo)	4.3 x 13.5 (black)	.79	.69	.55
231167	ValuePro	AP-343	5	— x 3.5 x 14 (stereo)	4.4 x 13 (metal)	1.49	1.25	.99
231160	ValuePro	PJ1035	5	— x 3.5 x 14 (mono)	4.8 x 13.5 (metal)	1.49	1.25	.99
101152	ValuePro	PJ1035	4	— x 3.5 x 14.5 (P202)	4.0 x 13 (black)	.69	.59	.49

### Female Power Plug Adapters

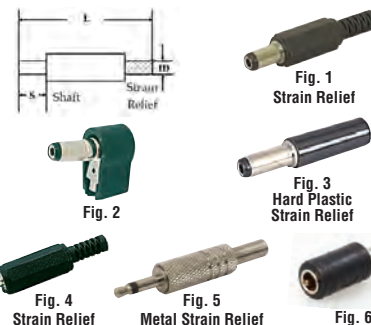
Part No.	Manufacturer	Product No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (above)	1	10	100
1953604	ValuePro	DCP2.1-DCJ2.5	6	2.1mm M to 2.5mm F (1.4"L)	—	—	1.49	1.25	.99
1953591	ValuePro	DCP2.5-DCJ2.1	6	2.5mm M to 2.1mm F (1.4"L)	—	—	1.49	1.25	.99

## Male & Female Power Jacks

\* Web Code: BAM



Part No.	Manufacturer	Product No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (above)	1	10	100
<b>1.3 mm Male Jack</b>									
101194	Various	PP024+	6.0 x 6.0 x 9.0	1/D	1/B	1.3 mm F	.59	.55	.45
<b>2.1 mm Male Jacks</b>									
101178	Various	PP014+	10.9 x 9.0 x 14.5	2/D	1/A	2.1 mm F	.39	.35	.29
137673	Various	PP013	10.9 x 9.0 x 14.5	3/D	4/A	2.1 mm F	.45	.39	.35
151590	Various	DPJ-021A	18.0 x 12.6 Dia.	4/C	1/A	2.1 mm F	.89	.79	.69
151555	ValuePro	DPJ-026	21.0 x 8.0 Dia.	5/E	1/A	2.1 mm F	1.49	1.35	1.19
159611	Various	PJ1014A	57.5 x 12.6 Dia.	6/F	3/A	2.1 mm F	1.75	1.59	1.39
281851	Switchcraft	722A	15.1 x 7.5 Dia.	7/C	1/A	2.1 mm F	2.75	2.49	2.25
<b>2.5 mm Male Jacks</b>									
207714	Various	HEC0470	11.0 x 9.0 x 14.5	2/D	1/B	2.5 mm F	.75	.69	.59
101186	Various	PP014A+	11.0 x 9.0 x 14.5	2/D	1/A	2.5 mm F	.55	.49	.39
151563	Various	DPJ-026A	15.1 x 8.0 Dia.	5/E	1/A	2.5 mm F	1.49	1.35	1.19
159506	Various	PJ1015A	57.5 x 12.6 Dia.	6/F	3/A	2.5 mm F	1.75	1.59	1.39
202358	Various	HD2388	12.4 x 7.7 Dia.	8/C	3/A	2.5 mm F	1.19	.99	.89
281842	Switchcraft	712A	15.8 x 7.5 Dia.	7/C	1/A	2.5 mm F	2.49	2.25	1.95
1768329	Switchcraft	712RA	19.6 x 10.9 Dia.	9/D	1/B	2.5 mm F	3.49	3.25	2.95
297553	Switchcraft	PC712A	23.3 x 11.0 Dia.	10/D	1/A	2.5 mm F	2.95	2.65	2.35
297529	Switchcraft	L712A	23.3 x 11.0 Dia.	11/C	1/A	2.5 mm F	3.95	3.39	2.95
<b>3.5 mm Female Jacks</b>									
101143	ValuePro	PJ0352	10.0 x 10.0 x 18.5	12/E	2/A	3.5 mm M	.39	.35	.29
109496	ValuePro	PJ035PM	10.5 x 9.0 x 20.0	13/C	2/A	3.5 mm M	.55	.49	.45
165730	ValuePro	PJ0354	15.5 x 5.9 Dia.	14/C	3/A	3.5 mm M	.79	.69	.59




† Center offset + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

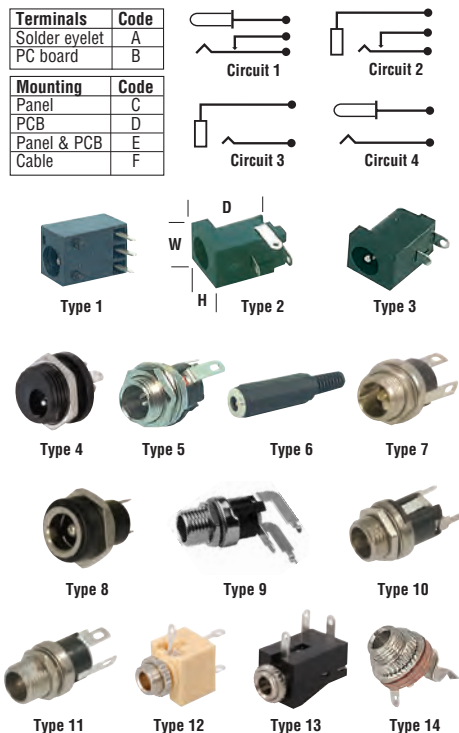


## Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse

<b>115002:</b> Screw assembly w/ strain relief	<b>115002</b>	
<b>124760:</b> 3' cord w/ pigtail	<b>124760</b>	
<b>105064:</b> 12' cord w/ pigtail		

Part No.	Mfr.	Fuse	1	10	100
<b>115002</b>	ValuePro	5A/250VAC 	<b>\$2.25</b>	<b>\$1.99</b>	<b>\$1.79</b>
<b>124760</b>	ValuePro	3A/250VAC 	<b>2.49</b>	<b>2.25</b>	<b>1.99</b>
<b>105064</b>	Various	2A/250VAC 	<b>1.95</b>	<b>1.75</b>	<b>1.39</b>





## Energy Star Worldwide Interchangeable Wall Plug Adapters

Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

- Field changeable AC plugs (sold separately, see below)
- Input voltage: 90-264VAC @ 47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive
- Load regulation:  $\pm 5\%$
- Power-On LED
- Class B EMI

- Regulated output
- Double insulated



### Wall Adapters (plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals and networking

Phihong & Mean Well Plug Clips (below)

**NEW**  
MARKED BY FBIH

**\* Web Code: NBH**

Part No.	Mir.	Mir. Part No.	Output Volt. (VDC)	Current (A)	Power (W)	Ripple (mVp-p)	Line Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing			
										1	10	50	100
1950761	Phihong	PSA05R-050PA	5	1.0	5	50	$\pm 1\%$	60 - 75	2.8 x 1.8 x 1.2	\$11.95	\$10.95	\$9.95	\$8.95
2082302	Mean Well	GE12105-P1J	5	2.0	10	50	$\pm 5\%$	70	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95
1918702	Globtek	GT-41052-1506	6	2.5	15	100	$\pm 1\%$	76	2.9 x 1.7 x 1.5	24.95	22.49	19.95	17.95
662872	Phihong	PSM11R-090	9	1.12	10	100	$\pm 5\%$	65 - 70	2.8 x 1.8 x 1.2	15.95	14.49	12.95	11.49
2082311	Mean Well	GE18109-P1J	9	2.0	18	100	$\pm 5\%$	75	3.2 x 1.7 x 1.6	18.95	16.95	15.49	13.95
228770	Phihong	PSA05R-120	12	0.42	5	120	$\pm 5\%$	60	2.8 x 1.8 x 1.2	12.95	11.49	10.49	9.49
662881	Phihong	PSM11R-120	12	0.84	10	120	$\pm 5\%$	65 - 70	2.8 x 1.8 x 1.2	13.95	12.49	11.95	10.95
662910	Phihong	PSA15R-120P	12	1.25	15	120	$\pm 5\%$	70 - 85	2.8 x 2.0 x 1.3	17.95	15.95	14.95	12.95
2082329	Phihong	PSC30R-120	12	2.5	30	180	$\pm 1\%$	80	3.8 x 2.1 x 1.2	23.95	21.49	18.95	16.95
2082337	Mean Well	GE12115-P1J	15	0.8	12	150	$\pm 3\%$	76	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95
2082345	Mean Well	GE12124-P1J	24	0.63	15	240	$\pm 3\%$	80	2.8 x 1.6 x 1.5	13.95	12.49	10.95	9.95

\* Globtek interchangeable plug kit included

### Phihong Plug Clips (sold separately, required for above adapters)

Part No.	Mir. P/N	Description (see above for photos)	1	10	50	100
229155	RPA	USA plug only	\$ .69	\$ .65	\$ .59	\$ .55
229163	RPE	European plug only	.69	.65	.59	.55
229171	RPK	United Kingdom plug only	1.05	.99	.95	.89
2081422	RPS	Australia plug only	1.75	1.69	1.65	1.59
229181	RPKIT	Kit includes RPA/RPE/RPK/RPS clips (4)	3.49	2.95	2.69	2.39

### Mean Well Plug Clips (sold separately, required for above adapters)

Part No.	Mir. P/N	Description (see above for photos)	1	10	50	100
2082353	AC-Plug-US	USA plug only	\$ .69	\$ .65	\$ .62	\$ .59
2082361	AC-Plug-EU	European plug only	.89	.85	.79	.75
2082370	AC-Plug-UK	United Kingdom plug only	1.09	1.05	.99	.95
2082388	AC-Plug-AU	Australia plug only	.95	.89	.85	.79
2082396	AC-Plug-MIX	Kit includes US, EU, UK & AU clips (4)	3.49	2.95	2.69	2.39



## 5VDC@0.5A Interchangeable Wall Plug Adapter

### With USB Socket Type A

- Voltage output: 5VDC @ 0.5A
- Voltage input: 90-264VAC @ 47-63Hz
- Efficiency: 55% (typical)
- Leakage current: 0.20 $\mu$ A max.
- Wall plug clips not included
- UL/CUL/TUV/CE approved
- Size: 2.97" L x 1.81" W x 1.25" H



Part No.	Product No.	1	10	50	100
662805	PSC30R-050	\$10.95	\$9.95	\$8.95	\$7.95

## velleman 24-Watt Switching Table-Top Power Supply

### Interchangeable AC & DC Plugs with Selected DC Outputs

- Input voltage: 100-240VAC @ 50-60Hz
- Output current: 2A
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 2.1mm x 5mm, 2.5mm x 5mm, 1.35mm x 3.5mm x & 1.7mm x 4mm
- Interchangeable AC input plugs for USA/UK/Europe/Taiwan/China (included)
- Selectable outputs: 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC, 12VDC



Part No.	Mir. Part No.	Size (H x W x D)	1	10	25
1537491	PSSMV3	4.7" x 3.3" x 2.5"	\$39.95	\$35.95	\$32.95

## International Step-Up & Step-Down Transformers

**\* Web Code: RAL**

Part No.	Product No. *	Fig.	Type	Volt Step	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Wt. (lbs.)	Pricing		
								H"	W"	D"		1	10	25
99477	AC220V50	1/A	Auto	Up	110VAC	220VAC	50	2.50	1.63	1.33	0.7	\$9.95	\$8.95	\$7.95
85008	AC220V300	2/A	Auto	Up	110VAC	220VAC	300	3.50	3.05	3.95	4.8	49.95	44.95	39.95
221331	G1S-500	2/A	Isolation	—	110VAC	110VAC	500	4.69	3.75	6.00	16.0	59.95	53.95	48.95
221217	P8689	2/A	Auto	Down	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	79.95	71.95	64.95
99573	AC110V50	1/B	Auto	Down	220VAC	110VAC	50	2.50	1.63	1.33	0.7	9.95	8.95	7.95
85016	AC110V300	2/B	Auto	Down	220VAC	110VAC	300	3.50	3.05	3.95	4.8	49.95	44.95	39.95
111851	AC110V500	2/B	Auto	Down	220VAC	110VAC	500	3.99	3.60	4.84	8.5	69.95	62.95	56.95
222092	G1SD-1000	2/A	Isolation	Down	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	89.95	79.95	71.95
142906	AC110V1500	2/B	Auto	Down	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	109.95	99.95	89.95

\* Blue Part No. = Limited Quantity Available



Fig. 1

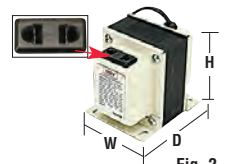


Fig. 2

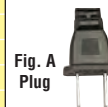


Fig. A Plug

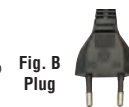


Fig. B Plug

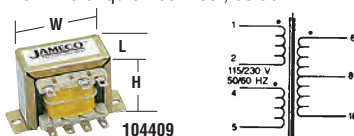


Output Receptacle

## Quick-Connect Power Transformers

**\* Web Code: BAN**

- Input voltage: 115/230VAC, 50-60Hz
- Terminals: quick-connect, solder



Part No.	Product No.	Triad Cross *	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
							L"	W"	H"		1	10	25
104387	XFR1225Q	FD612	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	\$13.95	\$12.49	\$10.95
104409	XFR1635Q	FD716†	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	15.95	14.49	12.95
101864	XFR2424Q	FD724	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	13.95	12.49	10.95
104417	XFR3615Q	FD736	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	15.95	14.49	12.95

† Terminal solder lugs are on same side

\* Triad cross is for reference only

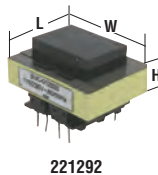
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**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement



## Split-Bobbin Power Transformers (2.5 to 19.2VA) \* Triad cross is for reference only

\* Web Code: LBK

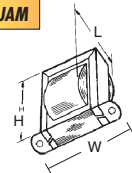
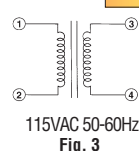
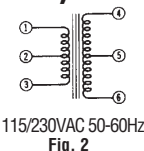
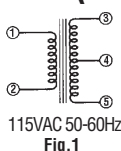
Part No.	Product No.	Triad Cross *	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$5.95	\$5.35	\$4.79
102534	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	6.95	6.25	4.95
102518	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.40	1.20	0.3	6.95	6.25	5.59
116089	14A-2.5R-2Y	Signal	118/230	2.5	12V @ .20A	12V @ .40A	24VCT @ .10A	1.62	1.31	1.12	0.25	4.95	4.49	3.95
176090	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.32	1.63	1.40	0.5	5.95	5.35	4.79
102593	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	7.95	6.95	5.95
148559	XFR3603SB	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.46	0.7	7.95	6.95	5.95
209015	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	3.95	3.59	2.95

## Power Transformers (7.6 to 288VA)

\* Web Code: JAM

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

- Primary: 115VAC or 115/230VAC, 50-60Hz



	Mfr.	Triad	Primary				Secondary				Lead		Dimensions			Wt.	Pricing		
Part No.	Part No.	Cross#	Color Code			VA	Voltage		Color Code		Type	Fig.	L"	W"	H"	(lbs.)	1	10	100
102163	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.84	2.40	1.67	0.8	\$6.95	\$6.25	\$4.95
105523	XFR0910+	N/A	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.82	2.43	1.67	0.7	6.95	6.25	5.59
221400	P-8657	F218X	Black	N/A	Black	24.0	12VAC @ 2A	White	N/A	White	Wire	3	1.89	2.75	1.99	1.3	8.95	7.95	5.95
221356	P-8658	F219X	Black	N/A	Black	48.0	12VAC @ 4A	White	N/A	White	Wire	3	2.25	4.00	2.63	2.3	12.95	11.49	8.95
29226	XFR122	F44X	Yellow	N/A	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.41	2.79	1.99	1.5	13.95	12.49	9.95
102155	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	13.95	12.49	9.95
149771	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	3.20	2.25	2.2	14.95	13.49	10.95
102121	XFR124	F181U	Black	N/A	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.21	2.26	2.7	15.95	14.95	11.95
105532	XFR1810	N/A	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.20	2.81	1.99	1.2	8.95	7.95	5.95
149957	XFR1820	N/A	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.25	3.15	2.71	1.8	10.95	9.95	7.95
221382	P8396	N/A	Black	N/A	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.80	1.97	0.6	6.95	6.25	4.95
102112	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.41	2.80	1.99	1.5	10.95	9.95	7.95
221373	P-8662	F192X	Black	N/A	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.44	3.60	2.23	2.3	13.95	12.49	9.95
112513	XFR242N	F229X	Black	N/A	Black	48.0	24VAC @ 2A	White	N/A	White	Wire	3	2.33	3.16	2.28	1.8	13.95	12.49	9.95
221365	P-8663	F193U	N/A	N/A	N/A	96.0	24VCT @ 4A	N/A	N/A	N/A	Lug	1	2.81	2.94	4.00	4.0	19.95	17.95	15.95
221411	P-8666	F226U	N/A	N/A	N/A	288.0	24VCT @ 12A	N/A	N/A	N/A	Lug	1	4.63	3.75	4.63	11.2	54.95	49.95	44.95
99654	XFR242	N/A	Red	N/A	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	3.22	2.30	2.5	13.95	12.49	9.95
102104	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	3.22	2.26	2.8	13.95	12.49	9.95
149797	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	3.22	2.26	2.3	13.95	12.49	9.95

† Solder terminals

\* Center tap

# Triad cross is for reference only

## PC Mount Modem Coupling Transformers

- 125357: • Insulation resistance: 100MΩ
- ±20% impedance matching and DC resistance matching
- Hipot tested: 1000VAC
- Core type: EI-14
- Vacuum wax impregnated



117760



125357

- 117760: • Dielectric strength: 1250VAC • Insertion loss: 2.50dB @ 1kHz

Part No.	Product No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125357	XFR6006A14	600CT	600CT	65	55	\$2.25	\$1.95	\$1.75
117760	671-8014	600	600	108	120	2.95	2.75	2.49

## TRIAD Low Frequency Current Sensing Transformer

May be used to monitor current 0.1-30A @ frequencies 50-400Hz.

- Turns ratio: 1:500
- Typical output: 110mV/amp
- Hi-pot: 500V
- Burden resistor: 60Ω



Part No.	Product No.	Sen DCR	Primary DCR	1	10	100
627591	CSE187L	21Ω max.	250μΩ max.	\$2.49	\$2.25	\$1.95

## TRIAD Current Sensing Transformer

- Frequency range: 20-200kHz
- Min. inductance: 3.5mH
- Primary is inserted thru hole in casing
- Arrow side of primary conductor has same polarity as pin #1



Part No.	Product No.	DCR	Primary Arms	1	10	100
627621	CST306-1A	0.34Ω max.	35	\$3.95	\$3.59	\$3.25

## TRIAD PC Mount Data/Voice Dual Transformer

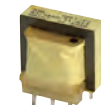
- Frequency range: data voice: 300 – 3500Hz; data: 800 to 3500Hz
- Trans-hybrid loss: 50dB
- Dielectric strength FCC68.304: 1500V • Power level: -45dBm to +7dBm
- Meets FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz



Part No.	Prod. No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	50
630475	TY-300P	600 (4W)	600/600	0	0.8	30	\$4.95	\$4.39	\$3.49

## TRIAD PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- 6-pin PC mount • Output: 100mW
- Impedance (Ω): 600CT/600CT
- Primary DC Unbalance: 15mA



Part No.	Mfr. Part No.	Dimensions (H x D x L)	1	10	100
630459	TY-145P	5/8" x 9/32" x 13/16"	\$3.79	\$3.19	\$2.49

## Current Sensing Transformer

- Frequency range: 10-50 kHz
- Inductance: 5mH
- Sensitivity current (I<sub>in</sub>): 1A
- Terminating resistor: 50Ω
- Turns: 60
- Sensitivity voltage (V<sub>out</sub>): 1V
- Max. current: 300mA



Part No.	Product No.	Dimensions (W x D x H)	1	10	100
164718	MTC30101+	0.7" x 0.46" x 0.8"	\$1.95	\$1.85	\$1.35

\* Audio Transformers Online — Enter Web Code SAJ

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## 500 to 200VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

121276



Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121276	3A/250V (P/N 69439)	5.3 x 7.3 x 7.0	10.4
129008	5A/250V (P/N 10401)	9.4 x 6.5 x 7.7	14.8
152582	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121276	500VA trans.	\$109.95	\$99.95	\$89.95
129008	1000VA trans.	139.95	124.95	114.95
152582	2000VA trans.	219.95	199.95	179.95

## 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103668 & 109112 (disconnect .25" solderless terminals), pg 90
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- One-year warranty



Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149324	320VA variable.	\$59.95	\$53.95	\$47.95

\* Variable Transformers Online — Enter Web Code MAR

## 550VA Variable AC Transformer

- Input volt.: 110VAC @ 60Hz
- Output volt.: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
- One-year warranty



Part No.	Description	1	10	50
152937	550VA variable.	\$109.95	\$99.95	\$89.95

## 300VA Isolation Transformer 120VAC to 120VAC

- Input connector: 5.5' cord with 2-prong plug
- Input voltage: 120VAC @ 60Hz
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.



Part No.	Product No.	1	10	100
181315	ITR300	\$39.95	\$35.95	\$31.95

## International Step-Up/Step-Down Autotransformer

- Input voltage: 110/200/220/240V
- Output voltage: 110/220V
- Wattage: 80 watts continuous/100 watts intermittent
- On/off switch
- Fuse protected
- CE certification
- Two free spare fuses
- European to US adaptor on power cable
- Universal European/US output receptacles

**NEW**  
MARKED IN PINK



Part No.	Mfr. Part No.	Description	Dimension	1	10	25
2082599	VC-100	International autotransformer	5.2"L x 3.7"W x 3.5"H	\$14.95	\$13.49	\$11.95

## More Information Online

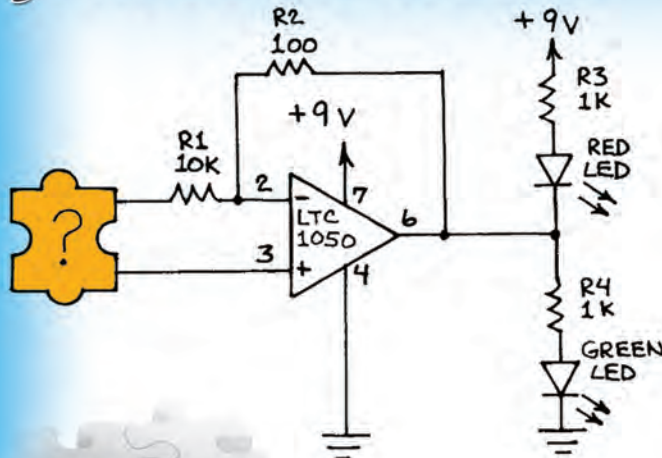
Results: To see your filtered results click Show Results.

Select	Jameco Part	Mfr Name	Mfr Part	Description	First Price	Mfr Qty
<input type="checkbox"/>	815289	TEXAS INSTRUMENTS	SN74HC0820V	8-BIT MAGNITUDE COMPARATOR	1: \$2.05	1
<input type="checkbox"/>	815293	TEXAS INSTRUMENTS	SN74HC0820V	8-BIT MAGNITUDE COMPARATOR	1: \$2.05	1
<input type="checkbox"/>	1009004	TEXAS INSTRUMENTS	SN74HC70320E4	SN74HC7032	250: \$2.83	250
<input type="checkbox"/>	914020	TEXAS INSTRUMENTS	SN74HC420	4-TO-16 BCD TO DECIMAL DECODER	5: \$2.35	5
<input type="checkbox"/>	1007992	TEXAS INSTRUMENTS	SN74HC70320E4	QUAD OR GATE/HC32 W/ SCHMITT	250: \$2.05	250
<input type="checkbox"/>	822792	TEXAS INSTRUMENTS	CD74HC040M	29 LEAD PDIP	1: \$2.15	1
<input type="checkbox"/>	1302694	TEXAS INSTRUMENTS	CD74HC7040E4	CD74HC7040	500: \$2.05	500
<input type="checkbox"/>	1007960	TEXAS INSTRUMENTS	SN74HC70320E4	SN74HC7032	500: \$2.05	500
<input type="checkbox"/>	1308164	TEXAS INSTRUMENTS	CD74HC4040E4	29 LEAD PDIP	325: \$1.05	325
<input type="checkbox"/>	820848	TEXAS INSTRUMENTS	CD74HC7040AM	16 LEAD SOIC(150ML)	1: \$1.25	1

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## Jameco Puzzler



Video game designer Bob Wheels needed an inexpensive, counter-clockwise rotation detector for a radio-controlled car that could withstand the busy hands of a teenaged game player and endure lots of punishment. Can you guess what the missing component is?

Go to: [www.Jameco.com/clue4](http://www.Jameco.com/clue4) to see if you got it right!

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Power Cords

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## 2 & 3-Conductor Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- Temperature: -20°C to +60°C



\*Web Code: UBF

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

### 2-Conductor Line Cords with Pigtail

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	Pricing			
									1	10	50	100
152187	17106BG	JVP	.20	1	6'	Beige	18/2	SPT-2	\$2.25	\$1.99	\$1.85	\$1.69
124434	ST008	JVP	.16	1	6'	Black	18/2	SPT-2	2.25	1.99	1.85	1.69
42042	SY-001-R	JVP	.18	1A	6'	Black	18/2	SPT-2	2.49	2.25	1.95	1.79

### 2-Conductor "8" Style Power Cords for Laptops and Power Supplies

355944	VW-1G	♦	.30	2A	6'	Gray	18/2	SPT-2	\$1.75	\$1.59	\$1.39	\$1.25
189587	VW-1	♦	.30	2A	6'	Black	18/2	SPT-2	2.35	2.15	1.95	1.79

### 2-Conductor "D" Style Power Cord for Laptops and Power Supplies

200791	LL114039	♦	.30	2B	6'	Black	18/2	SPT-2	\$1.95	\$1.79	\$1.59	\$1.39
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### 2-Conductor AC Plug Fan Power Cords

1952572	FAC5	♦	.40	3A	6'	Black	18/2	SPT-2	\$2.95	\$2.69	\$2.39	\$2.19
1952581	FAC45	♦	.40	3B	6'	Black	18/2	SPT-2	2.95	2.69	2.39	2.19

### 3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

38009	17237	JVP	.31	4	6'	Gray	18/3	SVT	\$3.79	\$3.39	\$2.95	\$2.79
37997	17236	JVP	.30	4	6'	Black	18/3	SVT	3.79	3.39	2.95	2.79
173810	17405	JVP	.14	4	6'	Gray	18/3	SJT	3.95	3.55	3.19	2.89
159410	17405B	JVP	.37	4	6'	Black	18/3	SJT	3.95	3.55	3.19	2.89
1585514	CPB-FL-08	♦	.56	4	8'	Black	18/3	SVT	4.29	3.85	3.49	3.19
38025	17238	JVP	.42	4	8'	Black	18/3	SVT	4.49	3.95	3.55	2.95
339688	17407	JVP	.60	4	8'	Black	18/3	SJT	4.79	4.39	3.79	3.39
102007	17535B	JVP	.49	4	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49
196286	LL40378	JVP	.80	4	10'	Black	16/3	SJT	6.95	6.25	5.59	4.95
166925	17516	JVP	.41	4	6'7"	Black	14/3	SJT	7.95	7.19	6.49	5.79
100272	17629B	JVP	.88	4	9'	Black	14/3	SJT	8.95	7.95	7.19	6.49

† With crimped terminals (3) †† European standard insulation color code ♦ Blue P/N = Limited Quantity

### 3-Conductor Power Cord with Pigtail (Shielded) 910 Plug

339995	17751	♦	.49	7A	6'7"	Black	18/3	SVT	\$4.95	\$4.49	\$3.95	\$3.49
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### 3-Conductor Detachable Power Cords (Unshielded) 290B/386A

2081801	17002A	JVP	.36	5	1'	Black	18/3	SVT	\$2.95	\$2.65	\$2.39	\$1.95
2082425	17000A	JVP	.35	5	3'	Black	18/3	SVT	3.25	2.95	2.59	2.29
38041	17249	JVP	.37	5	6'	Beige	18/3	SVT	3.95	3.59	3.19	2.49
103747	17248	JVP	.34	5	6'	Gray	18/3	SVT	4.25	3.75	3.49	2.95
38050	17250	JVP	.36	5	6'	Black	18/3	SVT	4.95	4.49	3.95	3.25
132118	17500	JVP	.44	5	6'	Black	18/3	SJT	4.95	4.49	3.95	3.25
1585637	171096	♦	.60	5	8'	Black	18/3	SVT	3.95	3.55	3.19	2.79
171096	17758	♦	.60	5	8'	Black	18/3	SJT	4.95	4.49	3.95	3.49
117584	17502	JVP	.37	5	8'	Gray	18/3	SVT	4.95	4.49	3.95	3.49
102024	17501V	JVP	.55	5	10'	Black	18/3	SVT	5.95	5.39	4.79	4.29
163361	6952299	JVP	.33	5	14'	Black	18/3	SJT	6.95	6.25	5.59	4.95
340291	17001A	JVP	.31	5	3'	Black	16/3	SJT	3.95	3.59	3.19	2.79
159361	17602	JVP	.52	5	6'	Black	16/3	SJT	6.95	5.95	5.35	4.79
1537230	LL34877	JVP	.72	5	8'	Black	16/3	SJT	7.95	6.95	6.25	5.59
1943078	E204241-C	♦	.72	5	6'7"	Black	14/3	SJT	6.95	6.25	5.59	4.95
125541	17504	JVP	.72	5	6'7"	Black	14/3	SJT	7.95	7.19	6.49	5.79

### 3-Conductor Detachable Power Cords (Shielded) 290B/386A Plugs

Part No.	Product No.	*Mfr.	Wt.	Fig.	Length	Color	AWG/Cond	Cord Type*	Pricing			
									1	10	50	100
213874	17660BG	JVP	.40	5	6'	Beige	18/3	SVT	\$4.25	\$3.79	\$3.49	\$2.95
161761	17742	SLA	.40	5	6'	Black	18/3	SVT	4.49	3.95	3.59	2.95
2082433	77450	JVP	.40	5	6'	Gray	18/3	SVT	4.49	3.95	3.59	2.95
1537459	LL6415	♦	.40	5	9'10"	Beige	18/3	SJT	4.95	4.49	3.75	2.75

### 3-Conductor Computer Power Supply Extension Cords (150/386A Plugs)

206172	PEC-3	JVP	.22	6	3'	Black	18/3	SJT	\$2.95	\$2.65	\$2.39	\$2.19
319804	LR94903	♦	.82	6	3'	Gray	18/3	SVT	3.49	3.19	2.75	2.25
28468	PEC	JVP	.36	6	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
420224	10W1-02212	JVP	.53	6	12'	Black	18/3	SVT	5.95	5.39	4.79	4.25

### 3-Conductor Power Cords with Pigtail (Unshielded) 910 or 386 Plug

340056	17537	JVP	.37	7A	9'10"	Black	18/3	SJT	\$4.95	\$4.49	\$3.95	\$3.49
340099	17539	JVP	.80	7A	9'10"	Black	16/3	SJT	4.95	4.49	3.95	3.49
340072	17521	JVP	.80	7B	9'10"	Black	16/3	SJT	4.95	4.49	3.95	3.49

### 3-Conductor Right Angle Detachable Power Cords (Unshielded) 290B/910 Plugs

117357	8120-6177	JVP	.41	8	6'	Gray	18/3	SVT	\$4.09	\$3.65	\$3.29	\$2.89
38077	17250R	JVP	.54	8	6'	Black	18/3	SVT	3.95	3.55	3.19	2.79
177384	17507	JVP	.28	8	10'	Black	18/3	SVT	4.95	4.49	3.95	3.49
222958	17510	♦	.88	8	6'7"	Black	14/3	SJT	6.95	6.25	5.59	4.95

### 3-Conductor Right Angle Detachable Power Cord (Shielded) 290B/910 Plugs

173252	17745	JVP	.16	8	6'7"	Black	18/3	SVT	\$5.95	\$5.39	\$4.79	\$4.25
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### 3-Conductor Hospital Grade Power Cords (green dot)

132011	17006G	JVP	.82	10	10'	Gray	16/3	SJT	\$10.95	\$9.95	\$8.95	\$7.95
115078	17006	JVP	.84	10	10'	Blk†	16/3	SJT	10.95	9.95	8.95	7.95
1537563	17510HG	♦	.82	9	10'	Gray	14/3	SJT	8.95	7.95	6.95	5.95

† Clear plug

### 3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

177448	MPC1	JVP	.16	11	1'	Black	18/3	SVT	\$2.95	\$2.59	\$2.25	\$1.95
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### 3-Conductor Detachable Power Cords (Power Strip Saver) 290B/386 Plugs

208339	P55-BR	JVP	.16	12	1'	Beige	18/3	SVT	\$2.49	\$2.25	\$1.95	\$1.75
199778	PSS-1	JVP	.16	12	1'	Black	18/3	SVT	2.95	2.69	2.39	2.15

### 3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

208347	GPR-2006	♦	.38	13	22'	Black	18/3	SVT	\$6.95	\$6.25	\$5.59	\$4.95
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### 3-Conductor Power Cord ("Y" Twin End) 150/386 (2) Plugs

340566	17268A	JVP	.32	14	4'	Black	18/3	SJT	\$7.95	\$6.95	\$5.95	\$4.95
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### 3-Conductor "Mickey Mouse" Style Power Supply Cords

1953559	MMFLAT	♦	.40	15	6'	Black	18/3	SPT-2	\$2.95	\$2.49	\$1.95	\$1.49
1951123	MMPC	♦	.40	15	6'	Black	18/3	SVT	3.95	3.49	2.95	2.49

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

\* JVP = Jameco ValuePro | SLA = Sola | ♦ = Manufacturer Varies

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



JAMECO ValuePro

## International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Cord color: black; except 1950702: grey

- BSI: British Standard Institution
- Cord type: H05VVf
- Voltage rating: 300V

Part No.	Mfr. Part No.	Country	Agency Approvals	Cord Length	Plug Fig.	Conductors	Pricing		
							1	10	100
117911	PCVDE-6B	Europe	All	6 ft.	1/A	3/0.75mm	\$4.95	\$4.49	\$3.95
2081916	GTSA3RA	Europe	All	6 ft.	2/A	3/0.75mm	4.95	4.49	3.95
1950702	BSI1363A	UK	ATSA	6 ft.	3/A	3/1.0mm	5.95	4.95	4.49
174633	21071H5182	UK/Ireland	BSI	8 ft.	3/A	3/1.0mm	6.95	6.25	5.59



Fig. 1 (Straight)



Fig. 2



Fig. 3  
(Right Angle, Fused)



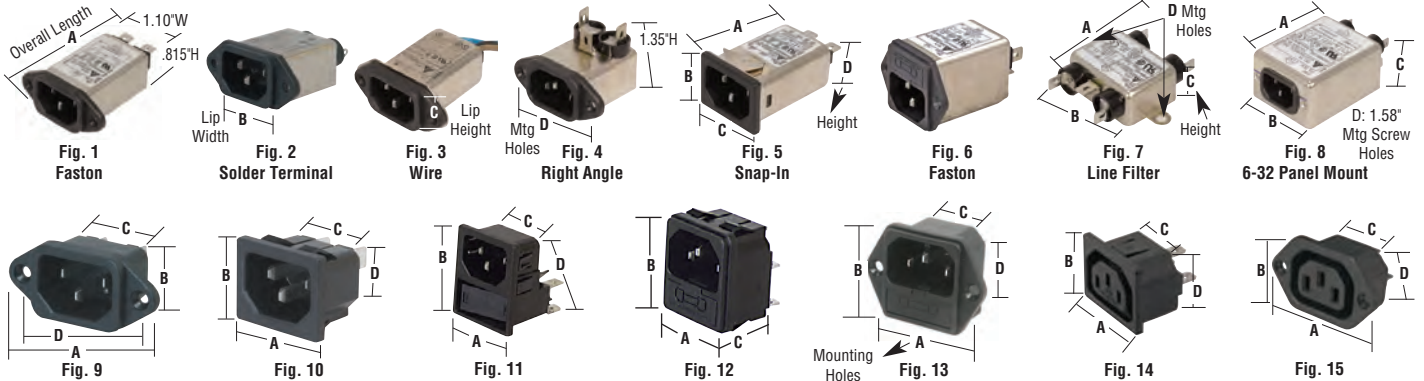
Fig. A



### European Agency Approvals

Germany	VDE	CE	France	LCIE	UK
Austria	DVE	OVE	Netherlands	KEMA	UK
Belgium	CEBEC	CEB	Norway	NEMKO	UK
Denmark	DEMKO	D	Sweden	SEMKO	UK
Finland	FIMKO	F	Switzerland	SEV	UK

## EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)



- Rated voltage: 115/250VAC
- Operating frequency: 50/60Hz
- Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC

**EMI Power Entry Filter:** Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA

**EMI Line Filter:** Maximum leakage current each line to ground: @ 115VAC 60Hz: 0.25mA;

1.0mA (10000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (10000pF)



\*Web Code: ACR

Part No.	Manufacturer	Product No.	Description	Fig.	Current (A)	Hipot (VDC)	Terminals	Terminal Size	Agency Approvals	Dimension (inches)				Pricing		
										A	B	C	D	1	10	100
1951511	Delta†	01GEEG3E (1ED1)	Power entry filter, straight (screw flanged)	1	1	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	\$3.49	\$2.95	\$2.49
210913	Delta†	01GEEW3E (1ED8)	Power entry filter, straight (screw flanged)	3	1	2250	4" Wires	Wire	UL/CSA/VDE	1.89	1.19	0.86	1.58	3.95	3.59	3.19
1951529	Delta	01DEEG3V	Power entry filter, rt. angle (screw flanged)	4	1	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	3.95	3.59	3.19
1951545	Delta	01DKAG5	Line filter	7	1	2250	Faston	0.25"	UL/CSA/VDE	2.92	1.98	0.87	2.39	3.49	2.95	2.25
395647	Corcom	2VK1	Line filter	6	2	2250	Faston	0.25"	UL/CSA/VDE	3.00	1.74	0.89	2.39	3.95	3.49	2.95
107326	Delta	03DEEG3B (3EF1F)	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	4.49	3.95	3.49
667438	ValuePro	YB03A1 (3EF1F)	Power entry filter, straight (screw flanged)	1	3	2250	Faston	0.25"	UL/CSA/VDE	2.23	1.19	0.89	1.58	4.95	4.49	3.95
150615	ValuePro	03AC1 +	Power entry filter, straight (screw flanged)	2	3	2250	Solder	0.16"	UL/CSA/VDE	2.05	1.19	0.89	1.58	4.95	4.49	2.85
1951537	Delta†	03GEEW3E-R (3ED8)	Power entry filter, wire (screw flanged)	3	3	2250	4" Wire	Wire	UL/CSA/VDE	1.90	1.19	0.87	1.58	4.95	4.49	3.95
1951553	Delta†	03GENG3E-R	Power entry filter (snap-in flanged)	5	3	2250	Faston	0.25"	UL/CSA/VDE	2.20	0.95	1.22	0.82	4.95	4.49	3.95
1951561	Delta	03DBG5 (3EB1)	Line filter	7	3	2250	Faston	0.25"	UL/CSA/VDE	2.48	1.73	0.76	2.13	4.49	3.95	3.25
1954720	Delta	04BEEG3S	Power entry filter, straight, fused (screw flanged)	1	4	2250	Faston	0.25"	UL/CSA/VDE	2.26	1.19	1.26	1.40	4.95	4.49	3.95
1951570	Delta†	05DRDG3S (5ER7)	Power entry filter, 6-32 threaded panel mount	8	5	2250	Faston	0.25"	UL/CSA/VDE	3.15	1.97	1.28	1.58	5.95	5.35	4.79
667462	ValuePro	YB06T1	Power entry filter, straight (screw flanged)	1	6	2250	Solder	0.25"	UL/CSA/VDE	2.10	1.19	0.89	1.58	4.95	4.49	3.95
1951633	ValuePro†	YB06AIR	Power entry filter, straight (screw flanged)	1	6	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.89	1.58	5.95	5.35	4.79
1951588	Delta	06DEEG3V	Power entry filter, right angle (screw flanged)	4	6	2250	Faston	0.25"	UL/CSA/VDE	1.64	1.19	0.87	1.58	5.95	5.35	4.79
1951596	Delta†	10GEEG3C	Power entry filter, straight (screw flanged)	1	10	2250	Faston	0.25"	UL/CSA/VDE	2.20	1.19	0.87	1.58	5.95	5.35	4.79
1951609	Delta	10ME3(S)	Power entry filter, right angle (PC mount)	4	10	2250	Solder	0.16"	UL/CSA/VDE	1.64	1.19	0.87	1.58	6.95	5.95	4.95
1951617	Delta	15DEEG3HA(D)	Power entry filter, straight (screw flanged)	1	15	2250	Faston	0.25"	UL/CSA/VDE	2.42	1.19	0.87	1.58	7.95	6.95	4.95
165016	OKAYA††	SUP-J15G-E2	Power entry filter, straight (screw flanged)	2	15	††	Solder	0.16"	UL/CSA/VDE	2.20	1.21	0.89	1.58	5.95	5.35	4.79
147901	Various	701R	AC power inlet, male (screw flanged)	9	15	250	Faston	0.187"	UL/CSA/VDE	1.97	0.76	1.06	1.58	.99	.79	.65
16652	ValuePro	JR101	AC power inlet, male (screw flanged)	9	15	250	Faston	0.25"	UL/CSA/VDE	1.97	0.76	1.06	1.58	1.09	.89	.69
147109	Various	42R02	AC power inlet, male (snap-in)	10	15	250	Faston	0.25"	UL/CSA/VDE	1.23	0.95	1.04	0.77	.99	.79	.65
2095525	ValuePro	IEC-GS-1-100	AC pwr inlet, male w/ sw. & fuse folder (snap-in)	11	15	250	Faston	0.187"	UL/CSA/VDE	1.20	1.97	0.77	1.83	2.49	2.25	1.95
117445	ValuePro#	0717	AC power inlet, male w/ fuse chamber (snap-in)	12	10	250	Faston	0.187"	UL/CSA/VDE	1.18	1.30	1.05	1.20	1.95	1.79	1.59
265528	ValuePro#	WS-044	AC power inlet, male w/ fuse chamber (screw)	13	10	250	Faston	0.185"	UL/CSA/VDE	1.40	1.28	1.06	1.21	1.49	1.35	1.19
1954640	Various	K2415	AC power inlet, female (snap-in)	14	15	250	Faston	0.187"	UL/CSA/VDE	1.38	0.98	1.26	1.10	1.49	1.25	.99
1954658	Various	K2414	AC power inlet, female (screw flanged)	15	15	250	Faston	0.187"	UL/CSA/VDE	1.97	1.14	1.26	0.95	1.75	1.49	1.25

† High Performance; Increased filtering; Added bleed resistor; More safety agencies †† Hipot: 2000Vrms # Includes spare fuse holder - fuse type 5mm x 20mm (250V)

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Open-Frame Linear AC-to-DC Power Supplies

- Load regulation:  $\pm 0.5\%$
- Line regulation:  $\pm 0.5\%$
- UL/CE/TUV certified

★ Web Code: MSP



2077503

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz) *	Rip & Noise (mV p-p)	Size (L" x W" x H")	Pricing		
			Voltage @ Current (min-max)	Power				1	10	25
2077503	Astec	ACV12N5	+12V @ 5.1A	61.0W	100-240 @ 47-63Hz	3.0	7.0 x 4.87 x 2.75	\$24.95	\$22.49	\$19.95
2077511	Astec	ACV15N4.5	+15V @ 4.5A	67.5W	100-240 @ 47-63Hz	3.0	7.0 x 4.87 x 2.75	19.95	17.95	15.95
2080454	Power One	HBB15-1.5A	+12V to 15V @ 1.7A/1.5A -12V to 15V @ 1.7A/1.5A	192.0W	100 or 240VAC @ 47-63Hz	5.0	7.0 x 4.88 x 2.50	59.95	53.95	47.95

\* Jumperable between 100VAC to 240VAC

## Open-Frame Medical Switching AC-to-DC Power Supplies

★ Web Code: JBK



221188

- Universal AC input/full range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload and overvoltage protection
- Isolation volt.: 4000VAC
- Load regulation:  $\pm 2.0\%$
- Working temp.:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Inrush current: 20A @ 120VAC
- 100% full-load burn-in test
- Leakage current: 0.3mA @ 240V
- 2.9 watts/in<sup>3</sup> max.
- Line regulation:  $\pm 1.0\%$
- Volt. adjustment: 10%
- Mating connector: P/N 104732, see web



Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p) *	Certification	Pricing		
			Voltage @ Current (min-max)	Power				1	10	25
221057	Mean Well	MPS-45-7.5	+7.5V @ 0-5.4A	40.5W	90-264 @ 47-440	100	UL/CUL/TUV/CE	\$26.95	\$24.95	\$22.95
221145	Mean Well	MPS-65-7.5	+7.5V @ 0-8A	60.0W	90-264 @ 47-440	100	UL/CUL/TUV/CE	34.95	31.95	28.95
221066	Mean Well	MPS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	100	UL/CUL/TUV/CE	31.95	28.95	25.95
221154	Mean Well	MPS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	100	UL/CUL/TUV/CE	31.95	28.95	25.95
221162	Mean Well	MPS-65-13.5	+13.5V @ 0-4.7A	63.5W	90-264 @ 47-440	100	UL/CUL/TUV/CE	31.95	28.95	25.95
221188	Mean Well	MPS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	100	UL/CUL/TUV/CE	26.95	24.95	22.95
2081721	EOS	LFMVL80-4000	+5V @ 10A, +12V@2A, -5V@.8A, -12V@.8A	80.0W	90-240 @ 47-63	80	UL/CE	69.95	62.95	56.95

\* Primary Output

## Open-Frame Ultraminiature Switching AC-to-DC Power Supplies



300530

- 100% full-load burn-in test
- No load consumption
- Ultraminiature size and lightweight
- Short-circuit, overload, overvoltage, overtemperature protection
- Three-year warranty; except P/Ns 300433/300530: Two-year warranty
- Universal AC input/full range
- UL/CUL/TUV/CE



★ Web Code: CCQ



695092

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing		
			Voltage @ Current (min-max)	Power					1	10	25
694971	Mean Well	NFM-05-5	+5V @ 0-1A	5.0W	2.3 x 1.8 x 0.8	$\pm 1.5\%$	$\pm 1.0\%$	80	\$19.95	\$17.95	\$15.95
300281	Mean Well	OFM-5001	+5V @ 0-1A	5.0W	2.3 x 1.8 x 0.8	$\pm 2.0\%$	$\pm 0.5\%$	50	19.95	16.49	14.95
300433	Astrodyne	OFM-0101	+5V @ 0-2A	10.0W	2.6 x 1.8 x 0.8	$\pm 1.0\%$	$\pm 1.0\%$	80	17.95	15.95	13.95
695092	Mean Well	NFM-10-5	+5V @ 0-2A	10.0W	2.6 x 1.8 x 0.9	$\pm 1.0\%$	$\pm 1.0\%$	80	17.95	15.95	14.95
695199	Mean Well	NFM-20-5	+5V @ 0-4.4A	22.0W	3.0 x 2.0 x 0.8	$\pm 1.0\%$	$\pm 1.5\%$	80	29.95	26.95	23.95
694989	Mean Well	NFM-05-12	+12V @ 0-0.42A	5.04W	2.3 x 1.8 x 0.8	$\pm 0.5\%$	$\pm 0.5\%$	150	19.95	17.95	15.95
695156	Mean Well	NFM-15-12	+12V @ 0-1.25A	15.0W	2.8 x 1.9 x 0.9	$\pm 0.5\%$	$\pm 0.5\%$	150	24.95	22.49	19.95
300484	Mean Well	OFM-1502	+12V @ 0-1.25A	15.0W	2.8 x 1.9 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	150	26.95	24.95	22.95
300417	Mean Well	OFM-5003	+15V @ 0-0.33A	5.0W	2.3 x 1.8 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	150	18.95	15.95	14.95
300450	Mean Well	OFM-0103	+15V @ 0-0.67A	10.0W	2.6 x 1.8 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	180	14.95	13.95	12.95
300530	Mean Well	OFM-0203	+15V @ 0-1.4A	20.0W	3.5 x 2.0 x 0.8	$\pm 1.0\%$	$\pm 0.3\%$	150	24.95	22.49	21.49

## Open-Frame Switching AC-to-DC Power Supplies

- Universal AC input/full range
- Two-year warranty
- Short-circuit, overload and overvoltage protection

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



★ Web Code: OSP



229042

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	PFC	Certification	Pricing		
			Voltage @ Current	Power									1	10	25
Single Output															
218991	Artesyn	NLP150L-96S3	+3.3V @ 1-22A	72.6W	90-264 @ 47-63	6.8x3.8x1.3	6.5x3.5x0.2	50	2.0	2.0	—	UL/CSA/VDE/CE	\$89.95	\$79.95	\$69.95
694452	Mean Well	USP-225-3.3	+3.3V @ 0-40A	132.0W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet	100	1.0	0.5	✓	UL/CUL/TUV/CE/CB	94.95	84.95	76.95
694399	Mean Well	USP-350-3.3	+3.3V @ 0-70A	231.0W	90-264 @ 47-63	9.3x4.0x1.5	see datasheet	80	1.0	0.5	✓	UL/CUL/TUV/CE	164.95	149.95	134.95
2079365	PowerLD	PSU15S5-HII	+5V @ 0-3A	15.0W	90-264 @ 47-63	3.9x1.8x1.1	3.5x1.6x0.1	<50	2.0	1.0	—	UL/CE	16.95	14.95	13.49
229042	Phihong	PSA15LN3-050	+5V @ 0-3A	15.0W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	50	2.0	1.0	—	UL/CUL/TUV/CE	19.95	17.95	15.95
2081836	V. Infinity	VOF-25-5	+5V @ 4.4A	25.0W	85-264 @ 47-63	3.5x2.0x0.9	3.2x1.7x0.2	50	5.0	5.0	—	UL/CUL/TUV/CE/FCC	20.95	18.95	16.95

\* Primary Output

Open-Frame Switching Power Supplies continued on pages 133 & 134

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Open-Frame Switching AC-to-DC Power Supplies (Continued)

\* Web Code: OSP

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty

### PFC Model Additional Features:

- Built-in active Power Factor Protection function, power factor >0.93
- Three-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	PFC	Certification	Pricing		
			Voltage @ Current (min-max)	Power									1	10	25
Single Output (Continued)															
212354	Mean Well	PS-25-5	+5V @ 0-5A	25.0W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	80	2.0	0.5	—	UL/CUL/TUV/CE	\$22.95	\$19.95	\$17.95
217332	Mean Well	PS-45-5	+5V @ 0-8A	40.0W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	—	UL/CUL/TUV/CE	24.95	21.95	19.95
210841	Power-One	MAP42-100S	+5V @ 0-8A	40.0W	120-240 @ 50-60	5.0x3.0x1.3	4.6x2.6x0.2	50	1.0	0.2	—	UL/CSA/TUV/CE	24.95	21.95	19.95
201938	Mean Well	PS-65-5	+5V @ 0-12A	60.0W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	1.0	4.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
1586331	Phihong	PSA120-050-R	+5V @ 0-15A	75.0W	40-264 @ 47-63	5.0x3.0x1.2	4.5x2.5x0.2	100	20.0	1.0	—	UL/CUL/TUV/CE	44.95	41.95	38.95
218915	Artesyn	NLP110-960S	+5V @ 0.5-15A	75.0W	90-264 @ 47-63	6.5x3.0x1.3	6.1x2.6x0.2	50	2.0	2.0	—	UL/CUL/CSA/VDE	49.95	44.95	42.95
1954439	Mean Well	USP-500-5	+5V @ 0-80A	400W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet†	80	2.0	0.5	✓	UL/CUL/TUV/CE	224.95	199.95	184.95
219011	Artesyn	NLP150L-96S5	+5.1V @ 1-22A	112.2W	90-264 @ 47-63	6.8x3.8x1.3	6.5x3.5x0.2	50	2.0	2.0	—	UL/CSA/VDE/CE	59.95	54.95	49.95
392826	Mean Well	PS-25-7.5	+7.5V @ 0-3.3A	24.8W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	80	2.0	0.5	—	UL/CUL/TUV/CE	19.95	17.95	15.95
229060	Phihong	PSA15LN3-120	+12V @ 0-1.25A	15.0W	90-264 @ 47-63	4.3x1.6x0.9	4.0x1.3x0.2	120	2.0	1.0	—	UL/CUL/TUV/CE	19.95	17.95	15.95
148604	Mean Well	PS-25-12	+12V @ 0-2.1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	—	UL/CUL/TUV/CE	22.95	19.95	17.95
213728	Mean Well	PS-45-12	+12V @ 0-3.7A	44.4W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	24.95	20.95	18.95
148639	Mean Well	PS-65-12	+12V @ 0-5.2A	62.4W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
173472	Mean Well	LPS-100-12	+12V @ 0-8.4A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.14	100	1.5	0.5	✓	UL/CUL/TUV/CE	54.95	49.95	44.95
237024	Lite-On	PA-1101-1	+12V @ 2-8.5A	102.0W	85-264 @ 47-63	6.0x4.0x1.3	—	1200	10.0	1.0	—	UL/CUL/TUV/CE	44.95	39.95	35.95
2079373	PowerLD	PD-125-12	+12V @ 0-10.5A	126.0W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.14	100	2.0	0.5	—	UL/CUL/CE	64.95	59.95	54.95
374089	Mean Well	PPS-125-12	+12V @ 0-10.5A	126.0W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	74.95	68.95	62.95
213681	Mean Well	LPP-150-12	+12V @ 0-12.5A	150.0W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.15	100	1.0	0.5	✓	UL/CUL/TUV/CE	74.95	69.95	63.95
668713	Mean Well	PPS-200-12	+12V @ 0-16.6A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	99.95	89.95	79.95
1954447	Mean Well	USP-500-12	+12V @ 0-42A	504.0W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet†	100	1.0	0.5	✓	UL/CUL/TUV/CE/CB	199.95	179.95	159.95
374380	Mean Well	PS-65-13.5	+13.5V @ 0-5.4A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.15	100	2.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
374345	Mean Well	LPS-100-13.5	+13.5V @ 0-7.5A	101.3W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.14	100	1.5	0.5	—	UL/CUL/TUV/CE	54.95	49.95	44.95
392771	Mean Well	LPP-150-13.5	+13.5V @ 0-11.2A	151.2W	85-264 @ 47-63	8.7x3.0x1.6	8.3x2.6x0.2	100	1.0	0.5	✓	UL/CUL/TUV/CE	44.95	39.95	36.95
216769	Mean Well	PS-25-15	+15V @ 0-1.7A	25.5W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	100	2.0	0.3	—	UL/CUL/TUV/CE	22.95	19.95	17.95
1919019	Mean Well	PS-35-15	+15V @ 0-2.4A	36.0W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	150	0.5	0.5	—	UL/CUL/TUV/CE/CB	25.95	22.95	20.95
374353	Mean Well	PS-45-15	+15V @ 0-3.5A	45.0W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	3.0	1.0	—	UL/CUL/TUV/CE	24.95	21.95	19.95
216751	Mean Well	PS-65-15	+15V @ 0-4.2A	63.0W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
670813	Intl. Power	PM110-13A	+15V @ 0-7.5A	110.0W	85-264 @ 47-63	7.0x4.3x1.9	6.5x3.8x0.2	15	1.0	0.5	—	UL/CSA/TUV	24.95	21.95	19.95
374097	Mean Well	PPS-125-15	+15V @ 0-8.4A	126.0W	90-264 @ 47-63	5.0x2.4x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	84.95	75.95	65.95
668721	Mean Well	PPS-200-15	+15V @ 0-13.3A	199.5W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.14	100	1.0	0.5	✓	UL/CUL/TUV/CE	99.95	89.95	79.95
212346	Mean Well	PS-25-24	+24V @ 0-1A	24.0W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	240	2.0	0.2	—	UL/CUL/TUV/CE	19.95	17.95	15.95
1919035	Mean Well	PS-35-24	+24V @ 0-1.5A	36.0W	90-264 @ 47-440	4.0x2.0x0.9	3.8x1.8x0.1	200	0.5	0.5	—	UL/CUL/TUV/CE/CB	24.95	21.95	19.95
213720	Mean Well	PS-45-24	+24V @ 0-1.9A	45.6W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	24.95	21.95	19.95
148647	Mean Well	PS-65-24	+24V @ 0-2.7A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
244727	Mean Well	LPS-75-24	+24V @ 0-3.5A	76.8W	90-264 @ 47-63	8.7x2.2x1.2	8.1x1.8x0.2	120	1.0	1.0	✓	UL/CUL/TUV/CE	24.95	22.95	20.95
173463	Mean Well	LPS-100-24	+24V @ 0-4.2A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	✓	UL/CUL/TUV/CE	49.95	44.95	39.95
301429	Mean Well	PPS-125-24	+24V @ 0-5.2A	124.8W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	150	1.0	0.5	✓	UL/CUL/TUV/CE	84.95	75.95	65.95
213672	Mean Well	LPP-150-24	+24V @ 0-6.3A	150.0W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	150	0.5	0.5	✓	UL/CUL/TUV/CE	74.95	69.95	63.95
668730	Mean Well	PPS-200-24	+24V @ 0-8.3A	199.2W	90-264 @ 47-63	5.0x3.0x1.4	3.7x7.8x0.14	150	1.0	0.5	✓	UL/CUL/TUV/CE	94.95	84.95	74.95
694495	Mean Well	USP-225-24	+24V @ 0-9.4A	225.6W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet†	150	1.0	0.5	✓	UL/CUL/TUV/CE/CB	99.95	89.95	79.95
201946	Mean Well	PS-65-27	+27V @ 0-2.4A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
236882	Mean Well	LPP-100-27	+27V @ 0-3.8A	102.6W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	150	0.5	0.5	✓	UL/CUL/TUV/CE	59.95	54.95	49.95
201954	Mean Well	PS-65-48	+48V @ 0-1.35A	64.8W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	100	2.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
216710	Mean Well	LPS-100-48	+48V @ 0-2.1A	100.8W	88-264 @ 47-63	8.7x2.4x1.3	8.4x2.1x0.1	200	0.5	0.5	✓	UL/CUL/TUV/CE	49.95	44.95	39.95
216646	Mean Well	LPP-150-48	+48V @ 0-3.2A	153.6W	85-264 @ 47-63	8.7x2.4x1.6	8.3x2.6x0.2	250	0.5	0.5	✓	UL/CUL/TUV/CE	57.95	54.95	52.95
694508	Mean Well	USP-225-48	+48V @ 0-4.7A	225.6W	90-264 @ 47-63	8.0x4.0x1.5	see datasheet†	250	1.0	0.5	✓	UL/CUL/TUV/CE/CB	94.95	84.95	76.95
1954463	Mean Well	USP-500-48	+48V @ 10.5A	504.0W	90-264 @ 47-63	10.0x5.0x1.6	see datasheet†	150	1.0	0.5	✓	UL/CUL/TUV/CE	224.95	199.95	184.95
Double Output															
171731	Delta	DPS-60MPB	+3.3V @ 0.8-8A; +5V @ 1-9A	65.0W	90-270 @ 47-63	5.8x3.3x1.4	5.1x3.74x0.1	50	2.0	2.0	—	UL/CUL/TUV	\$12.95	\$11.49	\$9.95
212312	Mean Well	PD-2505	+5V @ 0.1-3A; -5V @ 0.1-2.5A	25.0W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50	4.0	1.0	—	UL/CUL/TUV/CE	24.95	21.95	19.95
212338	Mean Well	PD-25A	+5V @ 0.2-2.5A; +12V @ 0.1-1.5A	25.0W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.08x0.1	50	1.0	0.5	—	UL/CUL/TUV/CE	24.95	21.95	19.95
212330	Mean Well	PD-25B	+5V @ 0.2-2A; +24V @ 0.1-1A	25.2W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	1.0	0.5	—	UL/CUL/TUV/CE	24.95	21.95	19.95
194862	Mean Well	PD-45A	+5V @ 0.4-3.2A; +12V @ 0.2-2	40.0W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
194871	Mean Well	PD-45B	+5V @ 0.4-3.2A; +24V @ 0.2-1.2A	44.8W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	27.95	24.95	21.95
194889	Mean Well	PD-65A	+5V @ 0.4-7A; +12V @ 0.2-3.2A	61.1W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	29.95	26.95	23.95

\* Primary Output † Multiple sets of mounting holes, see datasheet for dimensions

More Open-Frame Switching Power Supplies on pages 132 & 134

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Open-Frame & Enclosed Switching AC-to-DC Power Supplies

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

## Open-Frame Switching AC-to-DC Power Supplies (Continued)

\* Web Code: OSP

- Universal AC input/full range
- Short-circuit, overload and overvoltage protection
- Two-year warranty

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)



PT-65

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Input (VAC @ Hz)	Size (L"xW"xH")	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p) *	Load Reg. (±%) *	Line Reg. (±%) *	PFC	Certification	Pricing		
			Voltage @ Current (min-max)	Power									1	10	25
Double Output (Continued)															
692377	Autec	UPS65-1002	+5V @ 0.5-3.5A; +12V @ 0.1-4A	65.0W	90-260 @ 47-63	6.0x3.5x1.5	4.8x3.2x0.2	50	2.0	0.5	—	UL/CSA/TUV	\$19.95	\$17.95	\$15.95
194897	Mean Well	PD-65B	+5V @ 0.4-3.5A; +24V @ 0.2-2A	65.5W	90-264 @ 47-440	5.0x3.0x1.7	4.5x2.5x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	29.95	26.95	23.95
375056	Mean Well	PD-110B	+5V @ 0.5-5A; +24V @ 0.5-3.5A	109.0W	100-264 @ 47-63	7.0x4.3x1.8	6.5x3.8x0.1	100	1.0	1.0	—	UL/CUL/TUV/CE	49.95	44.95	39.95
148690	Mean Well	PD-2512	+12V @ 0.1-1.2A; -12V @ 0.1-1A	24.0W	85-264 @ 47-63	4.2x2.4x1.1	3.7x2.1x0.1	50	3.0	0.5	—	UL/CUL/TUV/CE	24.95	21.95	19.95
Triple Output															
230536	Phihong	PSA25L-301	+5V @ 0.2-2A; +12V @ 0.1-1A; -12V @ 0-0.3A	25.0W	90-264 @ 47-63	4.3x1.6x0.9	3.7x2.1x0.1	50	2.0	1.0	—	UL/CUL/TUV/CE	\$24.95	\$22.95	\$20.95
2081617	Artesyn	NFN40-7607	+5V @ 3A; +12V @ 2A; -5V @ 0.35A	40.0W	85-264 @ 47-440	5.0x3.0x1.2	4.6x2.6x0.15	50	2.0	1.0	—	UL/CSA/TUV	24.95	22.49	19.95
229122	Phihong	PSA4531	+5V @ 0-4A; +12V @ 0-1.5A; -12V @ 0-0.5A	44.0W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.2	50	2.0	1.0	—	UL/CSA/TUV/CE	34.95	31.95	28.95
88402	Mean Well	PT-45B	+5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A	45.0W	90-264 @ 47-440	5.0x3.0x1.1	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	28.95	25.95	22.95
229140	Phihong	PSA4534	+5V @ 0-4A; +15V @ 0-1.2A -15V @ 0-0.5A	45.5W	90-264 @ 47-63	5.0x3.0x1.2	4.6x2.6x0.16	50	2.0	2.0	—	UL/CSA/TUV/CE	34.95	31.95	28.95
216734	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A -12V@0-0.5A	63.5W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	32.95	29.95	26.95
215707	Mean Well	PT-65D	+5V @ 0.5-4A; +12V @ 0.2-2A; +24V @ 0.2-1A	65.0W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	2.0	1.0	—	UL/CUL/TUV/CE	32.95	29.95	26.95
216726	Mean Well	PT-65C	+5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A	65.0W	90-264 @ 47-440	5.0x3.0x1.7	4.6x2.6x0.2	50	3.0	1.0	—	UL/CUL/TUV/CE	32.95	29.95	26.95
301487	Mean Well	PPT-125B	+5V @ 1-14.4A; +12V @ 0.3-3.8A; -12V @ 0.05-0.63A	99.5W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.1	100	3.0	0.5	✓	UL/CUL/TUV/CE	69.95	64.95	59.95
301495	Mean Well	PPT-125C	+5V @ 1-13.8A; +15V @ 0.25-3.1A; -15V @ 0.05-0.63A	125.1W	90-264 @ 47-63	5.0x3.0x1.4	4.6x2.6x0.2	100	3.0	0.5	✓	UL/CUL/TUV/CE	44.95	39.95	36.95
Quad Output															
673934	Martek Power	PVI-50-46BUB	+5V @ 6.5A; +3.3V @ 2.5A; +12V @ 0.8A; -12V @ 0.5A	57.0W	100-240 @ 50-60	8.1x3.2x1.5	7.6x2.6x0.15	50	2.0	2.0	—	UL/CUL/CSA/TUV/CE	\$39.95	\$35.95	\$31.95
2081721	EOS**	LFMVL780-4000	+5V @ 10A; +12V @ 2A; -5V @ 0.8A; -12V @ 0.8A	80.0W	90-240 @ 47-63	3.0x5.0x1.0	4.55x2.55	80	1.0	1.0	—	UL/CE	69.95	62.95	56.95
217277	Mean Well	PPQ-100B	+5V @ 2-10A; +12V @ 0.3-3.4A; -5V @ 0-0.6A; -12V @ 0-0.6A	101.0W	90-264 @ 47-63	7.0x4.3x1.6	6.5x3.8x0.2	100	2.0	1.0	✓	UL/CUL/TUV/CE	39.95	—	—
645298	Mean Well	PQ-100DTR	+5V @ 5A; +12V @ 2A; -12V @ 2A; +24V @ 2A	103.0W	100-264 @ 47-63	7.0x4.3x1.8	6.5x3.8x0.2	80	1.0	1.0	—	—	59.95	49.95	44.95

\* Primary Output \*\* Medical rated

## Enclosed Switching AC-to-DC Power Supplies

\* Web Code: EPS

- 100% full-load burn-in test

For complete specifications visit [www.Jameco.com](http://www.Jameco.com)

† Additional Info:

- 1 G3 Series:** Miniature size, high reliability, suitable for critical applications • 88-264VAC @ 47-63Hz • 5G vibration • 70°C operation • Withstand 300VAC surge input for 5 sec. • Short-circuit/overload/overvoltage protection • Three-year warranty
- 2 G2 Series:** Without CE certification for models more than 200W (except for S-240) • 85-264VAC @ 47-63Hz • Universal AC input (25-60W), Switch selectable AC input (100-150W), AC input range auto-sensing (240W) • Two-year warranty
- 3 PFC Series:** Built-in active Power Factor Correction function • Power factor >0.93 • 88-264VAC @ 47-63Hz • Universal AC input • Three-year warranty
- 4 Parallel Series:** Built-in remote sense, remote On/Off control & Parallel functions • 115V and 220V versions @ 47-63Hz • Short-circuit/overvoltage/overload/overtemperature protection
- 5 Parallel Series with PFC:** Same as parallel series with Power Factor Correction
- 6 G5 Series:** Built-in active PFC function • 1U low profile 38mm • 85-264VAC @ 47-63Hz • High efficiency up to 89% • Withstand 300VAC surge input for 5 sec. • Five-year warranty



RS-25



SP-150

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p) *	Load Reg. (±%) *	Line Reg. (±%) *	Additional Info (above) †	Certification	Pricing			
			Voltage @ Current (min-max)	Power							1	10	25	
Single Output														
693193	Mean Well	RS-25-3.3	+3.3V @ 0-6A	19.8W	3.0x2.0x1.1	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	\$29.95	\$25.95	\$23.95	
693257	Mean Well	RS-75-3.3	+3.3V @ 0-15A	49.5W	5.1x3.9x1.5	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	45.95	38.95	35.95	
693329	Mean Well	RS-150-3.3	+3.3V @ 0-30A	99.0W	7.8x3.9x1.5	80	2.0	0.5	1	UL/CUL/TUV/CE/CB	66.95	57.95	54.95	
201903	Mean Well	SP-150-3.3-R	+3.3V @ 0-30A	99.0W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	71.95	64.95	
693636	Mean Well	SP-480-3.3	+3.3V @ 0-85A	280.5W	10.9x5.0x1.7	80	1.0	0.5	3	UL/CUL/TUV/CE/CB	179.95	164.95	149.95	
692422	Volgen	SX15U-05S	+5V @ 0-3A	15.0W	3.3x2.7x1.3	100	0.8	0.8	—	UL/CSA	17.95	15.95	13.95	
689848	Metapo	1M150C05-1M	+5V @ 0-3A	15.0W	3.9x3.8x1.4	100	0.5	1.0	—	UL/CUL/TUV/CE	19.95	17.95	15.95	

\* Primary Output

More Enclosed Switching Power Supplies continued on pages 136-139

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.




## Enclosed Switching AC-to-DC Power Supplies (Continued)



SCN-600

★ **Web Code: EPS**

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 134†		Pricing		
			Voltage @ Current (min-max)	Power							1	10	25
Single Output (Continued)													
1919043	Mean Well	RS-15-5	+5V @ 0-3A	15.0W	2.5x2.0x1.1	80	1.5	0.5	1	UL/CUL/TUV/CE/CB	\$23.95	\$21.95	\$18.95
323282	Mean Well	RS-25-5	+5V @ 0-5A	25.0W	3.1x2.0x1.1	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	29.95	26.95	23.95
123247	Mean Well	S-25-5	+5V @ 0-5A	25.0W	3.9x3.8x1.4	50	1.0	0.5	2	UL/TUV/CE	29.95	26.95	23.95
323329	Mean Well	RS-35-5	+5V @ 0-7A	35.0W	3.9x3.2x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	36.95	32.95	29.95
689805	Metapo	1M041C05-1M	+5V @ 0-8A	40.0W	4.8x3.8x1.5	75	—	—	—	UL/CUL/TUV/CE	24.95	21.95	19.95
123290	Mean Well	S-40-5	+5V @ 0-8A	40.0W	5.1x3.9x1.5	75	1.0	0.5	2	UL/CUL/TUV/CE/CB	35.95	31.95	28.95
689784	Metapo	1M051C05-0M	+5V @ 0-10A	50.0W	6.0x3.7x1.5	100	—	—	—	UL/CUL	24.95	21.95	19.95
323388	Mean Well	RS-50-5	+5V @ 0-10A	50.0W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	35.95	31.95
2079390	PowerLD	PD-60-5	+5V @ 0-10A	50.0W	5.1x3.9x1.5	50	2.0	0.5	—	UL/CUL/CE	42.95	38.95	34.95
689768	Potrans	FS-06005-0M	+5V @ 0-12A	60.0W	5.1x3.9x1.5	120	—	—	—	UL/CUL/CE	24.95	21.95	19.95
123327	Mean Well	S-60-5	+5V @ 0-12A	60.0W	6.3x3.8x1.5	120	1.0	0.5	2	UL/CUL/TUV/CE/CB	38.95	33.95	29.95
323581	Mean Well	RS-75-5	+5V @ 0-12A	60.0W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	43.95	38.95	34.95
194830	Mean Well	SP-75-5	+5V @ 0-15A	75.0W	7.0x3.9x1.3	80	1.0	0.5	3	UL/CUL/TUV/CE/CB	69.95	63.95	59.95
323708	Mean Well	RS-100-5	+5V @ 0-16A	80.0W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	49.95	44.95	41.95
194791	Mean Well	SP-100-5	+5V @ 0-20A	100.0W	7.0x3.9x1.8	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	73.95	67.95
323821	Mean Well	RS-150-5	+5V @ 0-26A	130.0W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	61.95	54.95	49.95
123394	Mean Well	S-150-5	+5V @ 0-30A	150.0W	7.0x4.3x2.0	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
201912	Mean Well	SP-150-5	+5V @ 0-30A	150.0W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	74.95	66.95	59.95
202042	Mean Well	SP-200-5	+5V @ 0-40A	200.0W	7.0x3.9x2.0	100	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	83.95	76.95	69.95
2079437	PowerLD	GPF-U300S5	+5V @ 0-50A	250.0W	8.9x4.5x2.0	150	2.0	1.0	—	UL/CUL/CE	99.95	89.95	84.95
216776	Mean Well	S-200-5	+5V @ 0-50A	250.0W	8.5x4.5x2.0	150	1.0	0.5	2	UL/CUL	109.95	99.95	89.95
244735	Mean Well	SP-320-5	+5V @ 0-55A at 230VAC; 0-44A at 115VAC	275.0W	8.5x4.5x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	139.95	124.95	109.95
2076295	Mean Well	PSP-600-5	+5V @ 0-80A	400.0W	6.7x4.7x3.7	180	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	179.95	164.95	149.95
693644	Mean Well	SP-480-5	+5V @ 0-85A	425.0W	10.9x5.0x1.7	80	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	179.95	164.95	149.95
374002	Mean Well	SE-600-05	+5V @ 0-100A	500.0W	9.7x5.0x2.5	150	2.0	0.5	2	UL/CUL	179.95	164.95	149.95
220249	Mean Well	SCN-600-05	+5V @ 0-100A	500.0W	11.5x5.2x2.7	100	2.0	0.5	4	UL/CUL/CB	289.95	269.95	249.95
693661	Mean Well	SP-750-5	+5V @ 0-120A	600.0W	10.9x5.0x2.5	120	2.0	0.5	3	UL/CUL/TUV/CE/CB	324.95	299.95	274.95
217373	Mean Well	PSP-1000-5	+5V @ 0-145A at 230VAC; 0-123.3A at 115VAC	725.0W	10.9x5.1x5.0	100	2.0	0.5	5	UL/CUL/TUV/CE/CB	224.95	214.95	204.95
231669	Mean Well	PSP-1500-5	+5V @ 0-217.5A	1087.5W	10.9x5.1x7.5	100	2.0	0.5	5	UL/CUL/TUV/CE/CB	369.95	349.95	329.95
123415	Mean Well	S-150-7.5	+7.5V @ 0-20A	150.0W	7.0x4.3x2.0	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
693556	Mean Well	S-240-7.5	+7.5V @ 0-30A	225.0W	7.5x3.7x2.6	200	1.0	0.5	2	UL/CUL/TUV/CE/CB/PFC	104.95	94.95	84.95
207212	Mean Well	S-320-7.5	+7.5V @ 0-36A	270.0W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	109.95	99.95	89.95
394215	Mean Well	SP-320-7.5	+7.5V @ 0-40A	300.0W	8.5x4.5x2.0	150	1.0	0.5	3	UL/CUL/TUV/CE/CB/PFC	139.95	124.95	109.95
1919051	Mean Well	RS-15-12	+12V @ 0-1.3A	15.6W	2.5x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	24.95	21.95	18.95
323300	Mean Well	RS-25-12	+12V @ 0-2.1A	25.2W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	29.95	26.95	23.95
123255	Mean Well	S-25-12	+12V @ 0-2.1A	25.2W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	29.95	26.95	23.95
323337	Mean Well	RS-35-12	+12V @ 0-3A	36.0W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	36.95	31.95	26.95
689830	Metapo	1M041C12-1M	+12V @ 0-3.5A	42.0W	3.9x3.8x1.4	100	—	—	—	UL/CUL/TUV/CE	29.95	26.95	23.95
123298	Mean Well	S-40-12	+12V @ 0-3.5A	42.0W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	35.95	31.95	28.95
689821	Metapo	1M051C12-1M	+12V @ 0-4.2A	50.0W	6.0x3.7x1.5	100	—	—	—	UL/CUL/TUV/CE	24.95	19.95	17.95
323396	Mean Well	RS-50-12	+12V @ 0-4.2A	50.4W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
689813	Potrans	1M061C05-1M	+12V @ 0-5A	60.0W	3.9x3.8x1.4	120	—	—	—	UL/TUV/CE	29.95	26.95	23.95
123335	Mean Well	S-60-12	+12V @ 0-5A	60.0W	6.3x3.8x1.5	120	0.5	0.5	2	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
323599	Mean Well	RS-75-12	+12V @ 0-6A	72.0W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	44.95	39.95	35.95
194838	Mean Well	SP-75-12	+12V @ 0-6.3A	75.6W	7.0x3.9x1.3	80	0.5	0.5	3	UL/CUL/TUV/CE/CB	69.95	63.95	59.95
123386	Mean Well	S-100F-12	+12V @ 0-8.5A	102.0W	7.8x3.9x1.5	125	0.5	0.5	2	UL/TUV/CE/CB	46.95	41.95	37.95
323716	Mean Well	RS-100-12	+12V @ 0-8.5A	102.0W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	59.95	53.95	48.95
194803	Mean Well	SP-100-12	+12V @ 0-8.5A	102.0W	7.0x3.9x1.8	100	0.5	0.5	1	UL/CUL/TUV/CE/CB/PFC	79.95	72.95	67.95
123423	Mean Well	S-150-12	+12V @ 0-12.5A	150.0W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	49.95	44.95	39.95
2079402	PowerLD	PD-150-12	+12V @ 0-12.5A	150.0W	7.8x3.9x1.5	120	1.0	0.5	—	UL/CUL/CE	59.95	53.95	47.95
323839	Mean Well	RS-150-12	+12V @ 0-12.5A	150.0W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	64.95	59.95	54.95
173421	Mean Well	SP-150-12	+12V @ 0-12.5A	150.0W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	89.95	79.95	72.95
2094848	Mean Well	HRPG-150-12	+12V @ 0-13A	156.0W	6.3x3.8x1.5	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	119.95	107.95	96.95
194774	Mean Well	SP-200-12	+12V @ 0-16.7A	200.4W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	89.95	79.95	71.95
137649	Mean Well	S-240-12	+12V @ 0-18A	216.0W	7.5x3.7x2.6	150	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	104.95	89.95	79.95
207204	Mean Well	S-320-12	+12V @ 0-25A	300.0W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	114.95	99.95	89.95
244743	Mean Well	SP-320-12	+12V @ 0-25A at 230VAC; 0-20A @ 115VAC	300.0W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	139.95	124.95	109.95
2094872	Mean Well	HRP-300-12	+12V @ 0-27A	324.0W	7.8x4.1x1.6	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	179.95	159.95	144.95
2094928	Mean Well	SE450-12	+12V @ 0-37.5A	450.0W	8.9x4.9x2.0	200	1.0	0.5	2	UL/CUL/TUV/CE/CB/PFC	139.95	124.95	109.95
301373	Mean Well	SP-480-12	+12V @ 0-40A at 230VAC; 0-36A @ 115VAC	480.0W	10.9x5.0x1.7	120	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	199.95	179.95	169.95
190693	Mean Well	SP-500-12	+12V @ 0-40.0A at 230VAC; 0-34A @ 115VAC	480.0W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	189.95	169.95	153.95

\* Primary Output

**More Enclosed Switching Power Supplies on pages 134 & 136-138**

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

# Enclosed Switching AC-to-DC Power Supplies

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## Enclosed Switching AC-to-DC Power Supplies (Continued)



SP-500

\* Web Code: EPS

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 134↑	Certification	Pricing		
			Voltage @ Current(min-max)	Power							1	10	25
Single Output (Continued)													
374011	Mean Well	SE-600-12	+12V @ 0-50A	600.0W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	\$164.95	\$149.95	\$134.95
374214	Mean Well	PSP-600-12	+12V @ 0-50A	600.0W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	179.95	164.95	154.95
220257	Mean Well	SCN-600-12	+12V @ 0-50A	600.0W	11.5x5.2x2.7	120	1.0	0.5	4	UL/CUL/CB	239.95	229.95	219.95
388631	Mean Well	SCP-600-12	+12V @ 0-50A	600.0W	11.4x4.7x2.7	120	0.5	0.5	5	UL/CUL/TUV/CE/CB	249.95	239.95	229.95
2094961	Mean Well	HRPG-600-12	+12V @ 0-53A	636.0W	8.6x4.1x2.5	120	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	299.95	274.95	249.95
319944	Mean Well	SP-750-12	+12V @ 0-62A	750.0W	10.9x5.0x2.5	120	0.5	0.3	3	UL/CUL/TUV/CE/CB	264.95	244.95	224.95
217366	Mean Well	PSP-1000-12	+12V @ 0-75A @ 230VAC; 0-63.8A @ 115VAC	900.0W	10.9x5.1x5.0	150	0.5	0.3	5	UL/CUL/TUV/CE/CB/PFC	499.95	479.95	459.95
373261	Mean Well	PSP-1500-12	+12V @ 0-112.5A	1350.0W	10.9x5.1x7.5	150	0.5	0.3	5	UL/CUL/TUV/CE/CB/PFC	524.95	489.95	449.95
202025	Mean Well	S-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
394193	Mean Well	SP-150-13.5	+13.5V @ 0-11.2A	151.2W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	84.95	74.95	64.95
212410	Mean Well	SP-200-13.5	+13.5V @ 0-14.9A	201.1W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	104.95	94.95	84.95
693572	Mean Well	S-320-13.5	+13.5V @ 0-22A	297.0W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	114.95	99.95	89.95
693599	Mean Well	SP-320-13.5	+13.5V @ 0-22A	297.0W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	139.95	124.95	109.95
212389	Mean Well	SP-500-13.5	+13.5V @ 0-36A @ 230VAC; 0-30.6A @ 115VAC	486.0W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB	214.95	189.95	169.95
1919060	Mean Well	RS-15-15	+15V @ 0-1A	15.0W	2.5x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	24.95	21.95	18.95
123262	Mean Well	S-25-15	+15V @ 0-1.7A	25.5W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	23.95	21.95	19.95
323302	Mean Well	RS-25-15	+15V @ 0-1.7A	25.5W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	29.95	25.95	23.95
323345	Mean Well	RS-35-15	+15V @ 0-2.4A	36.0W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	36.95	31.95	26.95
155053	Skynet	SNP-9548-M1	+15V @ 2.6A	39.0W	5.0x3.0x1.2	100	1.0	1.0	—	UL/CUL/CSA	29.95	26.95	23.95
202140	Mean Well	S-40-15	+15V @ 0-2.8A	42.0W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	35.95	31.95	28.95
323409	Mean Well	RS-50-15	+15V @ 0-3.4A	51.0W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	38.95	34.95	31.95
123343	Mean Well	S-60-15	+15V @ 0-4A	60.0W	6.3x3.8x1.5	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	38.95	34.95	29.95
323602	Mean Well	RS-75-15	+15V @ 0-5A	75.0W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	45.95	38.95	35.95
194845	Mean Well	SP-75-15	+15V @ 0-5A	75.0W	7.0x3.9x1.3	80	0.5	0.5	3	UL/CUL/TUV/CE/CB	59.95	54.95	49.95
212433	Mean Well	SP-100-15	+15V @ 0-6.7A	100.5W	7.0x3.9x1.8	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	73.95	67.95
1952433	Mean Well	NES-100-15	+15V @ 0-7A	105.0W	6.3x3.9x1.5	120	0.5	0.5	2	CUL/CB/CE	34.95	29.95	26.95
323724	Mean Well	RS-100-15	+15V @ 0-7A	105.0W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	63.95	56.95	52.95
123432	Mean Well	S-150-15	+15V @ 0-10A	150.0W	7.0x4.3x2.0	180	0.3	0.3	2	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
323847	Mean Well	RS-150-15	+15V @ 0-10A	150.0W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	64.95	59.95	54.95
173412	Mean Well	SP-150-15	+15V @ 0-10A	150.0W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	74.95	64.95	56.95
2094856	Mean Well	HRPG-150-15	+15V @ 0-10A	150.0W	6.3x3.8x1.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	129.95	114.95	104.95
202060	Mean Well	SP-200-15	+15V @ 0-13.4A	201.0W	7.0x3.9x2.0	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	94.95	84.95	74.95
202076	Mean Well	S-240-15	+15V @ 0-15A	225.0W	7.5x3.7x2.6	150	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	104.95	89.95	79.95
374993	Mean Well	S-320-15	+15V @ 0-20A	300.0W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	109.95	94.95	79.95
693610	Mean Well	SP-320-15	+15V @ 0-20A	300.0W	8.5x4.5x2.0	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	119.95	99.95	84.95
693652	Mean Well	SP-480-15	+15V @ 0-35A	480.0W	10.9x5.0x1.7	150	0.5	0.3	3	UL/CUL/TUV/CE/CB/PFC	179.95	164.95	149.95
291522	Mean Well	SE-600-15	+15V @ 0-40A	600.0W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	179.95	164.95	149.95
374222	Mean Well	PSP-600-15	+15V @ 0-40A	600.0W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	164.95
374045	Mean Well	SCN-600-15	+15V @ 0-40A	600.0W	11.5x5.2x2.7	150	0.5	0.5	4	UL/CUL/CB	224.95	209.95	194.95
2094901	Mean Well	HRPG-600-15	+15V @ 0-43A	645.0W	8.6x4.1x2.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	279.95	249.95	224.95
374029	Mean Well	SP-750-15	+15V @ 0-50A	750.0W	10.9x5.0x2.5	120	0.5	0.3	3	UL/CUL/TUV/CE/CB	199.95	184.95	169.95
231634	Mean Well	PSP-1000-15	+15V @ 0-60A @ 230VAC; 0-51A @ 115VAC	900.0W	10.9x5.1x5.0	150	0.5	0.3	5	UL/CUL/TUV/CE/CB	299.95	289.95	279.95
231693	Mean Well	PSP-1500-15	+15V @ 0-90A	1350.0W	10.9x5.1x7.5	150	0.5	0.3	5	UL/CUL/TUV/CE/CB	786.95	663.25	619.25
694920	Mean Well	RSP-1500-15	+15V @ 0-10A	1500.0W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	499.95	469.95	439.95
1919078	Mean Well	RS-15-24	+24V @ 0-0.625A	15.0W	2.5x2.0x1.1	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	24.95	21.95	18.95
123272	Mean Well	S-25-24	+24V @ 0-1.1A	26.4W	3.9x3.8x1.4	100	0.5	0.5	2	UL/TUV/CE	29.95	26.95	23.95
323311	Mean Well	RS-25-24	+24V @ 0-1.1A	26.4W	3.0x2.0x1.1	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	29.95	26.95	23.95
323353	Mean Well	RS-35-24	+24V @ 0-1.5A	36.0W	3.9x3.2x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	36.95	32.95	29.95
689792	Metapo	1M041C24-1M	+24V @ 0-1.8A	43.0W	4.8x3.8x1.5	100	—	—	—	UL/CUL/TUV/CE	29.95	26.95	23.95
123319	Mean Well	S-40-24	+24V @ 0-1.8A	43.0W	5.1x3.9x1.5	100	0.5	0.5	2	UL/CUL/TUV/CE/CB	35.95	31.95	28.95
323417	Mean Well	RS-50-24	+24V @ 0-2.2A	52.8W	3.9x3.8x1.4	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	35.95	31.95
2079381	PowerLD	PD-60-24	+24V @ 0-2.5A	60.0W	5.1x3.9x1.5	120	2.0	0.5	—	UL/CUL/CE	34.95	31.95	27.95
123352	Mean Well	S-60-24	+24V @ 0-2.5A	60.0W	6.3x3.8x1.5	150	0.5	0.5	2	UL/CUL/TUV/CE/CB	39.95	34.95	29.95
323620	Mean Well	RS-75-24	+24V @ 0-3.2A	76.8W	5.1x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	44.95	39.95	35.95
194854	Mean Well	SP-75-24	+24V @ 0-3.2A	76.8W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB	69.95	64.95	59.95
194812	Mean Well	SP-100-24	+24V @ 0-4.2A	100.8W	7.0x3.9x1.8	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	73.95	67.95
201971	Mean Well	S-100F-24	+24V @ 0-4.5A	108.0W	7.8x3.9x1.5	150	0.5	0.5	2	UL/TUV/CE/CB	46.95	41.95	37.95
323732	Mean Well	RS-100-24	+24V @ 0-4.5A	108.0W	6.3x3.8x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	64.95	57.95	52.95
155651	Power One	MAP110-1024CM	+24V @ 5A or +28V @ 4.3A	110.0W	7.0x4.3x1.8	240	0.5	1.0	—	UL/CSA/TUV	59.95	53.95	47.95
1945920	APS	RP1150-24C	+24V @ 0-6.25A	150.0W	7.5x4.2x2.0	100	1.0	1.0	—	UL/CE	49.95	44.95	39.95
173404	Mean Well	SP-150-24	+24V @ 0-6.25A	150.0W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	89.95	79.95	72.95

\* Primary Output

More Enclosed Switching Power Supplies on pages 134-135 & 137-138

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

# Enclosed Switching AC-to-DC Power Supplies



## Enclosed Switching AC-to-DC Power Supplies (Continued)



PSP-500

\* Web Code: EPS

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 134↑	Certification	Pricing		
			Voltage @ Current (min-max)	Power							1	10	25
Single Output (Continued)													
371012	Potrans	GL150W-24-NC	+24V @ 6.5A	156.0W	7.8x3.7x2.5	180	2.0	2.0	—	UL/CUL/TUV/CE	\$39.95	\$35.95	\$31.95
123450	Mean Well	S-150-24	+24V @ 0-6.5A	156.0W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
2079429	PowerLD	PD-150-24	+24V @ 0-6.5A	156.0W	7.8x3.9x1.5	120	1.0	0.5	—	UL/CUL/CE	49.95	44.95	39.95
323855	Mean Well	RS-150-24	+24V @ 0-6.5A	156.0W	7.8x3.9x1.5	120	0.5	0.5	1	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
2094864	Mean Well	HRPG-150-24	+24V @ 0-6.5A	156.0W	6.3x3.8x1.5	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	119.95	107.95	96.95
689750	Potrans	FS-20024-1M	+24V @ 0-8.3A	200.0W	7.8x4.3x2.0	150	0.5	0.5	—	UL/CSA/CE/TUV	59.95	53.95	48.95
194782	Mean Well	SP-200-24	+24V @ 0-8.4A	201.6W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	72.95	64.95
137657	Mean Well	S-240-24	+24V @ 0-10A	240.0W	7.5x3.7x2.6	180	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	97.95	87.95	77.95
196657	Mean Well	S-320-24	+24V @ 0-12.5A	300.0W	8.5x4.5x2.0	150	0.5	0.5	2	UL/CUL	112.95	99.95	89.95
244752	Mean Well	SP-320-24	+24V @ 0-13.0A at 230VAC; 0-10.4A @ 115VAC	312.0W	8.5x4.5x2.0	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	119.95	107.95	94.95
2094881	Mean Well	HRP-300-24	+24V @ 0-14A	336.0W	7.8x4.1x1.6	150	0.5	0.3	6	UL/CUL/TUV/CE/CB/PFC	169.95	149.95	134.95
301322	Mean Well	SP-480-24	+24V @ 0-20.0A at 230VAC; 0-18A @ 115VAC	480.0W	10.9x5.0x1.7	150	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	199.95	179.95	169.95
147054	Mean Well	SP-500-24	+24V @ 0-20.0A at 230VAC; 0-17A @ 115VAC	480.0W	6.7x4.7x3.7	240	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	219.95	184.95	164.95
190722	Mean Well	PSP-500-24	+24V @ 0-20.8A at 230VAC; 0-16.6A @ 115VAC	499.2W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	219.95	209.95	199.95
295902	Mean Well	SE-600-24	+24V @ 0-25A	600.0W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	179.95	164.95	149.95
374231	Mean Well	PSP-600-24	+24V @ 0-25A	600.0W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	159.95
220265	Mean Well	SCN-600-24	+24V @ 0-25A	600.0W	11.5x5.2x2.7	240	1.0	0.5	4	UL/CUL/CB	289.95	269.95	249.95
374264	Mean Well	SCP-600-24	+24V @ 0-25A	600.0W	11.4x4.7x2.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	299.95	279.95	259.95
320048	Mean Well	SP-750-24	+24V @ 0-31.3A	750.0W	10.9x5.0x2.5	120	0.5	0.2	3	UL/CUL/TUV/CE/CB	199.95	189.95	179.95
374310	Mean Well	SCP-800-24	+24V @ 0-33A	792.0W	11.4x4.7x2.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB	319.95	289.95	274.95
217358	Mean Well	PSP-1000-24	+24V @ 0-37.6A at 230VAC; 0-32A @ 115VAC	902.4W	10.9x5.1x5.0	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	359.95	329.95	299.95
1585717	Mean Well	RSP-1000-24	+24V @ 0-40A	960.0W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	399.95	369.95	349.95
373923	Mean Well	PSP-1500-24	+24V @ 0-56.4A	1353.6W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	639.95	579.95	524.95
694938	Mean Well	RSP-1500-24	+24V @ 0-63A	1512.0W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	599.95	569.95	549.95
693409	Mean Well	SP-75-27	+27V @ 0-2.8A	75.6W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB	49.95	44.95	39.95
202033	Mean Well	S-150-27	+27V @ 0-5.6A	151.2W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	54.95	49.95	44.95
693548	Mean Well	SP-200-27	+27V @ 0-7.5A	202.5W	7.0x3.9x2.0	150	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	72.95	64.95
693581	Mean Well	S-320-27	+27V @ 0-11.0A	297.0W	8.5x4.5x2.0	200	0.5	0.5	2	UL/CUL	109.95	99.95	89.95
693628	Mean Well	SP-320-27	+27V @ 0-11.7A	315.9W	8.5x4.5x2.0	200	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	124.95	109.95	94.95
190706	Mean Well	SP-500-27	+27V @ 0-18A at 230VAC; 0-15.3A @ 115VAC	486.0W	6.7x4.7x3.7	200	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	219.95	199.95	179.95
190731	Mean Well	PSP-500-27	+27V @ 0-18.5A at 230VAC; 0-14.8A @ 115VAC	499.5W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	229.95	204.95	189.95
295911	Mean Well	SE-600-27	+27V @ 0-22.2A	599.4W	9.7x5.0x2.5	150	0.5	0.5	2	UL/CUL	179.95	164.95	149.95
374257	Mean Well	PSP-600-27	+27V @ 0-22.2A	600.0W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	159.95
374038	Mean Well	SP-750-27	+27V @ 0-27.8A	750.0W	10.9x5.0x2.5	120	0.5	0.2	3	UL/CUL/TUV/CE/CB	219.95	199.95	179.95
231652	Mean Well	PSP-1000-27	+27V @ 0-33.6A at 230VAC; 0-28.6A at 115VAC	907.2W	10.9x5.1x5.0	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	499.95	479.95	459.95
1585709	Mean Well	RSP-1000-27	+27V @ 0-37.0A	999.0W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	399.95	369.95	349.95
231714	Mean Well	PSP-1500-27	+27V @ 0-50.4A	1360.8W	10.9x5.1x7.5	150	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	699.95	669.95	649.95
694946	Mean Well	RSP-1500-27	+27V @ 0-56.0A	1512.0W	10.9x5.0x3.3	150	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	599.95	569.95	549.95
392834	Mean Well	S-240-30	+30V @ 0-8A	240.0W	7.5x3.7x2.6	180	0.5	0.5	2	UL/CUL/TUV/CE/CB/PFC	97.95	87.95	77.95
216805	Mean Well	SP-75-48	+48V @ 0-1.6A	76.8W	7.0x3.9x1.3	100	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	59.95	54.95	49.95
216793	Mean Well	S-100F-48	+48V @ 0-2.2A	105.6W	7.8x3.9x1.5	150	0.5	0.5	2	UL/TUV/CE/CB	39.95	36.95	33.95
167346	Mean Well	S-150-48	+48V @ 0-3.2A	153.6W	7.0x4.3x2.0	240	0.2	0.2	2	UL/CUL/TUV/CE/CB	59.95	53.95	47.95
201930	Mean Well	SP-150-48	+48V @ 0-3.2A	153.6W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	89.95	79.95	72.95
323863	Mean Well	RS-150-48	+48V @ 0-3.3A	158.4W	7.8x3.9x1.5	200	0.5	0.5	1	UL/CUL/TUV/CE/CB	66.95	58.95	52.95
202068	Mean Well	SP-200-48	+48V @ 0-4.2A	201.6W	7.0x3.9x2.0	250	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	79.95	72.95	64.95
167338	Mean Well	S-240-48	+48V @ 0-5.0A	240.0W	7.5x3.7x2.6	240	1.0	1.0	2	UL/CUL/TUV/CE/CB/PFC	97.95	87.95	77.95
689776	Metapo	1M321C48-0M	+48V @ 0-6.5A	312.0W	7.5x4.5x2.0	240	0.5	0.5	—	UL/CUL	89.95	79.95	72.95
207191	Mean Well	S-320-48	+48V @ 0-6.5A	312.0W	8.5x4.5x2.0	240	0.5	0.5	2	UL/CUL	114.95	104.95	89.95
244770	Mean Well	SP-320-48	+48V @ 0-6.7A at 230VAC; 0-5.4A @ 115VAC	321.6W	8.5x4.5x2.0	240	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	124.95	109.95	94.95
161796	Mean Well	SP-500-48	+48V @ 0-10.0A at 230VAC; 0-8.5A @ 115VAC	480.0W	6.7x4.7x3.7	300	0.5	0.5	3	UL/CUL/TUV/CE/CB/PFC	199.95	171.95	164.95
301402	Mean Well	SP-480-48	+48V @ 0-10.0A at 230VAC; 0-9A @ 115VAC	480.0W	10.9x5.0x1.7	240	0.5	0.2	3	UL/CUL/TUV/CE/CB/PFC	179.95	159.95	144.95
190749	Mean Well	PSP-500-48	+48V @ 0-10.5A at 230VAC; 0-8.4A @ 115VAC	504.0W	10.9x5.1x7.5	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	229.95	204.95	189.95
374062	Mean Well	SCN-600-48	+48V @ 0-12.0A	576.0W	11.5x5.2x2.7	480	0.5	0.5	4	UL/CUL/CB	289.95	269.95	249.95
295929	Mean Well	SE-600-48	+48V @ 0-12.5A	600.0W	9.7x5.0x2.5	200	0.5	0.5	2	UL/CUL	179.95	164.95	149.95
374249	Mean Well	PSP-600-48	+48V @ 0-12.5A	600.0W	6.7x4.7x3.7	240	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	189.95	174.95	159.95
217350	Mean Well	PSP-1000-48	+48V @ 0-19.0A at 230VAC; 0-16.2A @ 115VAC	912.0W	10.9x5.1x5.0	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	499.95	479.95	459.95
1585725	Mean Well	RSP-1000-48	+48V @ 0-21.0A	1008.0W	11.6x5.0x1.6	150	0.5	0.5	5	UL/CUL/TUV/CE/CB	399.95	369.95	349.95
231722	Mean Well	PSP-1500-48	+48V @ 0-28.5A	1368.0W	10.9x5.1x7.5	200	0.5	0.2	5	UL/CUL/TUV/CE/CB/PFC	639.95	579.95	524.95
694954	Mean Well	RSP-1500-48	+48V @ 0-32.0A	1536.0W	10.9x5.0x3.3	200	0.5	0.5	5	UL/CUL/TUV/CE/CB/PFC	599.95	569.95	549.95

\*Primary Output

More Enclosed Switching Power Supplies on pages 134-136 & 138

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

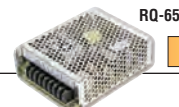


# Enclosed Switching AC-to-DC Power Supplies

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



## Enclosed Switching AC-to-DC Power Supplies (Continued)



\*Web Code: EPS

Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L"xW"xH")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Additional Info Pg. 134↑	Certification	Pricing			
			Voltage @ Current (min-max)								Power	1	10	25
Double Output														
323362	Mean Well	RD-35A	+5V @ 0.3-4A; +12V @ 0.2-1A		32.0W	3.9x3.2x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	\$39.95	\$35.95	\$30.95
323380	Mean Well	RD-35B	+5V @ 0.3-4A; +24V @ 0.2-1.3A		51.2W	3.9x3.2x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	39.95	35.95	30.95
323433	Mean Well	RD-50B	+5V @ 0.3-6A; +24V @ 0.2-2A		53.6W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	43.95	37.95	35.95
323425	Mean Well	RD-50A	+5V @ 0.3-6A; +12V @ 0.3-3A		54.0W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	43.95	37.95	35.95
123458	Mean Well	D-60A	+5V @ 0.3-4A; +12V @ 0.2-3A		56.0W	6.3x3.8x1.5	75	0.5	0.5	2	UL/CUL/TUV/CE/CB	42.95	38.95	34.95
123466	Mean Well	D-60B	+5V @ 0.3-3A; +24V @ 0.2-1.8A		58.0W	6.3x3.8x1.5	75	0.5	0.5	2	UL/CUL/TUV/CE/CB	42.95	38.95	34.95
323505	Mean Well	RD-65A	+5V @ 0.3-8A; +12V @ 0.2-4A		66.0W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	46.95	40.95	36.95
323513	Mean Well	RD-65B	+5V @ 0.3-8A; +24V @ 0.2-3A		68.0W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	46.95	40.95	36.95
323628	Mean Well	RD-85A	+5V @ 2.0-10A; +12V @ 0.3-5A		88.0W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	62.95	53.95	49.95
132410	Mean Well	D-120A	+5V @ 2.0-12A; +12V @ 0.5-5A		120.0W	7.0x3.9x2.0	60	0.5	0.5	2	UL/CUL/TUV/CE/CB	69.95	62.95	56.95
132397	Mean Well	D-120B	+5V @ 2.0-6A; +24V @ 0.4-4A		126.0W	7.0x3.9x2.0	60	0.5	0.5	2	UL/CUL/TUV/CE/CB	69.95	62.95	56.95
323759	Mean Well	RD-125B	+5V @ 2.0-10A; +24V @ 0.4-5A		133.4W	7.8x3.9x1.5	80	3.0	1.0	1	UL/CUL/TUV/CE/CB	69.95	62.95	55.95
Triple Output														
201989	Mean Well	T-40A	+5V @ 0.6-3A; +12V @ 0.2-2A; -5V @ 0.1-0.5A		41.5W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	\$41.95	\$37.95	\$33.95
201997	Mean Well	T-40B	+5V @ 0.6-3A; +12V @ 0.2-2A; -12V @ 0.1-0.5A		45.0W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	41.95	37.95	33.95
202009	Mean Well	T-40C	+5V @ 0.6-3A; +15V @ 0.2-1.5A; -15V @ 0.1-0.5A		45.0W	5.1x3.9x1.5	100	0.5	0.5	2	CSA/CE	41.95	37.95	33.95
323442	Mean Well	RT-50A	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -5V @ 0.5-5A		46.5W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	36.95	33.95	31.49
323460	Mean Well	RT-50B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.1-1A		50.0W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	44.95	39.95	37.95
323468	Mean Well	RT-50C	+5V @ 0.5A; +15V @ 0.2-2A; -15V @ 0.1-1A		50.0W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	44.95	39.95	37.95
323476	Mean Well	RT-50D	+5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A		51.0W	3.9x3.8x1.4	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	44.95	39.95	37.95
123482	Mean Well	T-60B	+5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A		61.0W	6.3x3.8x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	45.95	41.95	36.95
123491	Mean Well	T-60C	+5V @ 0.5-5A; +15V @ 0.2-2A; -15V @ 0-0.5A		62.5W	6.3x3.8x1.5	100	1.0	0.5	2	UL/CUL/TUV/CE/CB	45.95	41.95	36.95
323540	Mean Well	RT-65B	+5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0-1A		64.6W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	49.95	45.95	41.95
323548	Mean Well	RT-65C	+5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0-1A		65.5W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	49.95	45.95	41.95
323555	Mean Well	RT-65D	+5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A		68.0W	5.1x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	39.95	35.95	31.95
323644	Mean Well	RT-85A	+5V @ 2-10A; +12V @ 0.3-4A; -5V @ 0-1A		84.5W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	59.95	54.95	49.95
323661	Mean Well	RT-85C	+5V @ 2-10A; +15V @ 0.3-4A; -15V @ 0-1A		87.5W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	69.95	63.95	59.95
323678	Mean Well	RT-85D	+5V @ 2-10A; +12V @ 0.1-1A; +24V @ 0.3-2.5A		90.0W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	59.95	54.95	49.95
213794	Mean Well	TP-100A	+5V @ 3-10A; +12V @ 0.4-4A; -5V @ 0-0.6A		100.0W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	99.95	89.95	84.95
213778	Mean Well	TP-100C	+5V @ 3-10A; +15V @ 0.4-3A; -15V @ 0-0.6A		104.0W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	89.95	79.95	69.95
301509	Mean Well	T-120B	+5V @ 2-12A; +12V @ 0.5-5A; -12V @ 0.2-1A		121.0W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	69.95	62.95	56.95
323767	Mean Well	RT-125A	+5V @ 2-15A; +12V @ 0.5-6A; -5V @ 0.1-1A		131.0W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	69.95	62.95	55.95
323775	Mean Well	RT-125B	+5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A		132.0W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	69.95	62.95	55.95
323783	Mean Well	RT-125C	+5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0.1-1A		132.5W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	69.95	62.95	55.95
323792	Mean Well	RT-125D	+5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A		136.0W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	72.95	64.95	58.95
213832	Mean Well	TP-150C	+5V @ 2-15A; +15V @ 0.4-4.5A; -15V @ 0-0.6A		151.5W	7.8x3.9x2.0	100	3.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	64.95	59.95	54.95
Quad Output														
323484	Mean Well	RQ-50B	+5V @ 0.5-6A; +12V @ 0.2-1.5A; -5V @ 0-1A; -12V @ 0-1A		45.5W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	\$49.95	\$45.95	\$41.95
323492	Mean Well	RQ-50D	+5V @ 0.5-6A; +12V @ 0.2-1.5A; +24V @ 0.1-1A; -12V @ 0-1A		53.4W	3.9x3.8x1.4	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	49.95	44.95	39.95
147046	Mean Well	Q-60B	+5V @ 0.5-5.5A; +12V @ 0.1-2A; -5V @ 0-0.5A; -12V @ 0-0.5A		60.0W	6.3x3.8x1.5	100	0.5	0.5	2	UL/CUL/CE/CB	49.95	45.95	41.95
323564	Mean Well	RQ-65B	+5V @ 0.5-8A; +12V @ 0.2-3A; -5V @ 0-1A; -12V @ 0-1A		62.5W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	45.95	39.95	36.95
323572	Mean Well	RQ-65D	+5V @ 0.5-8A; +12V @ 0.2-3A; +24V @ 0.1-1.5A; -12V @ 0-1A		68.0W	5.1x3.9x1.5	80	0.5	0.5	1	UL/CUL/TUV/CE/CB	49.95	44.95	39.95
323695	Mean Well	RQ-85D	+5V @ 2-10A; +12V @ 0.3-4A; +24V @ 0.1-1.5A; -12V @ 0-1A		84.0W	6.3x3.8x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	74.95	67.95	59.95
132389	Mean Well	Q-120B	+5V @ 2-11A; +12V @ 0.5-4A; -5V @ 0.2-1A; -12V @ 0.2-1A		120.0W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	69.95	62.95	55.95
323803	Mean Well	RQ-125B	+5V @ 2-12A; +12V @ 0.5-4.5A; -5V @ 0.1-1A; -12V @ 0.1-1A		120.0W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	69.95	62.95	55.95
132371	Mean Well	Q-120D	+5V @ 2-8A; +12V @ 0.2-2A; +24V @ 0.2-2A; -12V @ 0.2-1A		124.0W	7.0x3.9x2.0	80	0.5	0.5	2	UL/CUL/TUV/CE/CB	59.95	54.95	49.95
323812	Mean Well	RQ-125D	+5V @ 2-12A; +12V @ 0.5-4A; +24V @ 0.1-2.5A; -12V @ 0-1A		124.0W	7.8x3.9x1.5	80	1.0	0.5	1	UL/CUL/TUV/CE/CB	59.95	54.95	49.95
213648	Mean Well	QP-150F	+5V @ 3-10A; +15V @ 0-3A; +24V @ 0.4-2A; -15V @ 0-0.6A		152.0W	7.8x3.9x1.5	120	2.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	124.95	109.95	99.95
213752	Mean Well	QP-200D	+5V @ 3-15A; +12V @ 0-4A; +24V @ 0.4-3A; -12V @ 0-0.7A		204.9W	7.8x3.9x2.0	100	2.0	1.0	3	UL/CUL/TUV/CE/CB/PFC	149.95	134.95	119.95

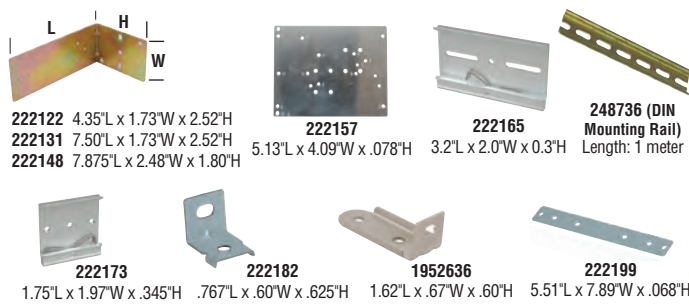
\*Primary Output

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Mounting Brackets & Accessories for Mean Well Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

Part No.	Mfr. No.	For Models	1	10
222122	DRL-01	S-25/40, RS-25/35	\$1.75	\$1.49
222131	DRL-02	S-60/100F/150, D-60/120, SD-100/150, SP-75/100/150/200	2.49	2.25
222148	DRL-03	S-240/320, SP-320	2.95	2.75
222157	DRP-01	All Models	2.95	2.75
222165	DRP-02	S-25, SP-75/100/150/200	1.95	1.75
222173	DRP-03	All Models	2.25	1.95
222182	MHS012	S-320/350, SP-100/150/200/320	.99	.75
1952636	MHS013	PSP-500, SP-750, SE-600	1.25	.99
222199	MHS025	SP-500, PSP-600	1.95	1.75
248736	2094.0	DR, DRH, DRP, DRT, MDR	6.95	6.25



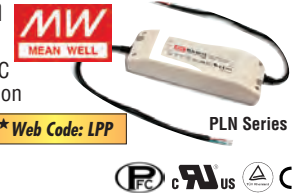
<b>Mating Connector</b>
103588 \$1.20/10 Spade Solderless Terminal
<b>Crimp Tool</b>
72996 \$22.49 Solderless Terminal Crimp Tool
Pricing & specs on page 90

## LED Enclosed Power Supplies with Power Factor Correction

### For Indoor and Outdoor Applications

- Suitable for LED lighting & moving sign application
- Short-circuit/overload/overvoltage/overtemperature protection
- UL1310 class 2 power unit
- 100% full-load burn-in test
- Universal AC input/full range
- Inrush current: 40A/230VAC
- Cooling by free air convection

- PLN Series** • Plastic case • Constant voltage and current • Working temperature: -30°C to 50°C • Two-year warranty
- CLG Series** • Metal case • Adjustable voltage and current • Working temperature: -30°C to 70°C • Three-year warranty



Jameco Part No.	Manufacturer	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage @ Current (min-max)	Power						1	10	25
1954404	Mean Well	PLN-30-12	+12V @ 0-2.5A	30.0W	5.7 x 1.9 x 1.2	2000	10.0	3.0	UL/CUL/TUV/CE	\$44.95	\$39.95	\$36.95
1918833	Mean Well	PLN-100-12	+12V @ 0-5A	60.0W	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	84.95	76.95	72.95
1954877	Mean Well	CLG-150-12A	+12V @ 0-11A	132.0W	8.7 x 2.7 x 1.5	150	1.0	0.5	UL/TUV/CE	109.95	99.95	89.95
1918964	Mean Well	PLN-60-15	+15V @ 0-4A	60.0W	7.1 x 2.4 x 1.4	2400	10.0	4.0	UL/CUL/TUV/CE	64.95	58.95	54.95
1919001	Mean Well	CLG-60-15	+15V @ 0-4A	60.0W	6.8 x 2.4 x 1.5	2400	10.0	4.0	UL/CUL/TUV/CE	79.95	71.95	68.95
1918841	Mean Well	PLN-100-15	+15V @ 0-5A	75.0W	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	84.95	76.95	72.95
1585856	Mean Well	CLG-100-15	+15V @ 0-5A	75.0W	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	99.90	89.95	79.95
1585864	Mean Well	CLG-100-20	+20V @ 0-4.8A	96.0W	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	99.95	89.95	79.95
1954412	Mean Well	PLN-30-24	+24V @ 0-1.25A	30.0W	5.7 x 1.9 x 1.2	2600	10.0	3.0	UL/CUL/TUV/CE	44.95	39.95	36.95
1918868	Mean Well	PLN-100-24	+24V @ 0-4A	96.0W	7.9 x 2.8 x 1.4	150	2.0	1.0	UL/CUL/TUV/CE/PFC	74.95	68.95	62.95
1585872	Mean Well	CLG-100-24	+24V @ 0-4A	96.0W	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	99.95	89.95	79.95
1954885	Mean Well	CLG-150-24A	+24V @ 0-6.3A	150.0W	8.7 x 2.7 x 1.5	150	1.0	0.5	UL/TUV/CE	129.95	119.95	109.95
1585733	Mean Well	CLG-100-27	+27V @ 0-3.55A	96.0W	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	99.95	89.95	79.95
1585768	Mean Well	CLG-100-48	+48V @ 0-2A	96.0W	8.7 x 2.7 x 1.5	150	2.0	1.0	UL/CUL/TUV/CE/PFC	99.95	89.95	79.95

\* Primary Output

## Encapsulated Switching Power Supplies

\* Web Code: ESP

### PM-05/PM-10/PM-15/PM-20 Series:

- Universal AC input (85-264VAC @ 47Hz)
- Short-circuit, overload, overvoltage protection
- Ultra-miniature size
- UL/CUL/TUV/CE/CB
- Cooling by free air convection
- 100% full-load burn-in test
- Three-year warranty



Part No.	Manufacturer	Mfr. P/N	Output		Pins	Ripple & Noise (mVp-p)	Load Reg (%)	Line Reg (%)	Size (L" x W" x H")	Pricing		
			Volt. @ Curr. (min-max)	Power						1	10	25
1954527	Mean Well	PM-05-12	+12V @ 0-0.42A	5.04W	4	150	1.0	0.5	2.5 x 2.0 x 0.8	\$19.95	\$17.95	\$15.95
1954551	Mean Well	PM-10-12	+12V @ 0-0.85A	10.20W	4	150	1.0	0.5	2.8 x 2.0 x 0.9	21.95	19.95	17.95
1954586	Mean Well	PM-15-12	+12V @ 0-1.25A	15.00W	4	150	1.0	0.5	3.0 x 2.1 x 0.9	24.95	22.49	19.95
1954367	Mean Well	PM-20-12	+12V @ 0-1.80A	21.60W	6	150	1.0	0.5	3.7 x 2.2 x 0.9	27.95	25.95	23.95
1954535	Mean Well	PM-05-24	+24V @ 0-0.23A	5.52W	4	240	0.5	0.5	2.5 x 2.0 x 0.8	19.95	17.95	15.95
1954560	Mean Well	PM-10-24	+24V @ 0-0.42A	10.10W	4	240	0.5	0.5	2.8 x 2.0 x 0.9	21.95	19.95	17.95
1954594	Mean Well	PM-15-24	+24V @ 0-0.63A	15.10W	4	240	0.5	0.5	3.0 x 2.1 x 0.9	24.95	22.49	19.95
1954383	Mean Well	PM-20-24	+24V @ 0-0.92A	22.10W	6	240	0.5	0.5	3.7 x 2.2 x 0.9	27.95	25.95	23.95

## Rackmount Power Supply

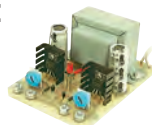
\* Web Code: MCJ

- AC Input active surge current limiting
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- Short-circuit, overload, overvoltage, overtemperature protection
- Input voltage: 90-132VAC/180-264VAC switch selectable

Part No.	Mfr. Part No.	Power	Output (VDC @ A)	Ripple & Noise	Size (W x D x H)	1	10	25
673408	SE-600-48RM	600W	48 @ 12.5	150mVp-p max.	19.5" x 5.0" x 3.5"	\$269.95	\$249.95	\$229.95

## Dual Adj. Regulated Power Supply Kit

- Adjustable positive/negative supplies ±5 to ±15VDC, 175mA-750mA per supply
- LED on indicator • 120VAC input • 48-piece kit
- PC board construction • Difficulty level: intermediate



Part No.	Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626	JE215	5.1"L x 3.5"W x 2.0"H	2.1	\$24.95	\$22.49

We also carry  
**ATX Computer Power Supplies**  
See page 175



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# DIN-Rail Switching Power Supplies

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test

## DIN-Rail Switching Power Supplies

- For DIN-Rail terminal blocks see pg 88
- Universal AC input range
- Soft-start circuit, limiting AC surge current

★ Web Code: RBY

UL-508



373182 (Fig. 1)



192699 (Fig. 2)



212291 (Fig. 3)



212274 (Fig. 4)



221892 (Fig. 5)



252663 (Fig. 6)



1943300  
(Fig. 7)  
Rail not included



1943393  
(Fig. 8)  
Rail not included



1943449  
(Fig. 9)  
Rail not included



2081086  
(Fig. 10)  
Rail not included

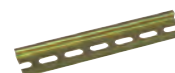


2094944  
(Fig. 11)  
Rail not included

Part No.	Mfr. Part No.	Fig.	Output Volts @ Curr.	Pwr (W)	Input Voltage (VAC @ Hz/VDC)	Input Current @ Max Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
373174	DR-30-5	1	5VDC @ 3A	15	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	\$36.95	\$32.95	\$28.95
1943300	MDR-20-5	7	5VDC @ 3A	15	85-264 @ 47-63/120-370	0.55A (115V)/0.35A (230V)	3.9 x 0.9 x 3.5	0.4	36.95	32.95	28.95
212303	DR-450-5	2	5VDC @ 5A	25	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	39.95	35.95	32.95
1943393	MDR-40-5	8	5VDC @ 6A	30	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	44.95	39.95	35.95
373212	DR-60-5	1	5VDC @ 6.5A	32.5	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	44.95	39.95	35.95
1943449	MDR-60-5	9	5VDC @ 10A	50	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	54.95	49.95	44.95
1952978	MDR-10-12	7	12VDC @ 0.84A	10	85-264 @ 47-63/120-370	0.33A(155V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	32.95	29.95	26.95
2094952	DR-15-12	1	12VDC @ 1.25A	15	85-264 @ 47-63/120-370	0.88A(115V)/0.48A(230V)	3.7 x 1.0 x 2.2	0.2	34.95	31.49	27.95
1943334	MDR-20-12	7	12VDC @ 1.67A	20	85-264 @ 47-63/120-370	0.55A (115V)/0.35A (230V)	3.9 x 0.9 x 3.5	0.4	39.95	35.95	31.95
373182	DR-30-12	1	12VDC @ 2A	24	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.95	35.95	31.95
1943406	MDR-40-12	8	12VDC @ 3.33A	40	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	52.95	46.95	42.95
192699	DR-4512	2	12VDC @ 3.5A	42	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	44.95	40.95	36.95
373230	DR-60-12	1	12VDC @ 4.5A	54	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	51.95	46.95	42.95
1943457	MDR-60-12	9	12VDC @ 5A	60	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	54.95	49.95	44.95
212291	DR-7512	3	12VDC @ 6.3A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	69.95	62.95	56.95
1943481	MDR-100-12	9	12VDC @ 7.5A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	89.95	79.95	74.95
212274	DR-12012	4	12VDC @ 10A	120	88-132/176-264 * @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	84.95	77.95	69.95
373191	DR-30-15	1	15VDC @ 2A	30	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.95	35.95	31.95
373238	DR-60-15	1	15VDC @ 4A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	51.95	46.95	42.95
1952986	MDR-10-24	7	24VDC @ 0.42A	10	85-264 @ 47-63/120-370	0.33A(155V)/0.21A(230V)	3.9 x 0.9 x 3.5	0.4	32.95	29.95	26.95
1943385	MDR-20-24	7	24VDC @ 1A	24	85-264 @ 47-63/120-370	0.55A (115V)/0.35A (230V)	3.9 x 0.9 x 3.5	0.4	39.95	35.95	31.95
373203	DR-30-24	1	24VDC @ 1.5A	36	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.95	35.95	31.95
1943422	MDR-40-24	8	24VDC @ 1.7A	40.8	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	52.95	46.95	42.95
192681	DR-4524	2	24VDC @ 2A	48	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	44.95	40.95	36.95
373246	DR-60-24	1	24VDC @ 2.5A	60	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	51.95	46.95	42.95
1943465	MDR-60-24	9	24VDC @ 2.5A	60	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	54.95	49.95	44.95
212282	DR-7524	3	24VDC @ 3.2A	75	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	69.95	62.95	56.95
1943490	MDR-100-24	9	24VDC @ 4A	90	85-264 @ 47-63/120-370	1.3A(155V)/0.8A(230V)	3.9 x 2.2 x 3.5	0.9	89.95	79.95	74.95
1943537	DR-100-24	1	24VDC @ 4.2A	100	88-264 @ 47-63/124-370	3.0A(115V)/1.6A(230V)	2.2 x 3.9 x 3.7	0.8	85.35	81.08	77.03
212266	DR-12024	4	24VDC @ 5A	120	88-132/176-264 * @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	84.95	77.95	69.95
1953727	DRH-120-24	4	24VDC @ 5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	84.95	77.95	69.95
221892	DRP-24024	5	24VDC @ 10A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	149.95	134.95	119.95
373123	DRT-240-24	5	24VDC @ 10A	240	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	154.95	139.95	124.95
2081086	SDR-240-24	10	24VDC @ 10A	240	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	2.5 x 4.9 x 4.5	2.5	199.95	179.95	159.95
252663	DRP-48024	6	24VDC @ 20A	480	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	169.95	149.95	134.95
295938	DRP-480S-24	6	24VDC @ 20A	480	90-132/180-264 * @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	199.95	179.95	159.95
2094944	SDR-480-24	11	24VDC @ 20A	480	88-264 @ 47-63/124-370	2.6A(115V)/1.3A(230V)	4.9 x 3.4 x 5.0	4.9	299.95	269.95	242.95
1943431	MDR-40-48	8	48VDC @ 0.83A	39.8	85-264 @ 47-63/120-370	1.1A (115V)/0.7A (230V)	3.9 x 1.6 x 3.5	0.6	52.95	46.95	42.95
1943473	MDR-60-48	9	48VDC @ 1.25A	60	85-264 @ 47-63/120-370	1.8A (115V)/1.0A (230V)	3.9 x 1.6 x 3.5	0.7	54.95	49.95	44.95
221904	DR-12048	4	48VDC @ 2.5A	120	88-132/176-264 * @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	84.95	77.95	69.95
1953735	DR-120-48	4	48VDC @ 2.5A	120	340-550 @ 47-63/480-780	0.65A(400V)/0.6A(500V)	3.9 x 2.6 x 4.9	1.7	89.95	81.95	74.95
221883	DRP-24048	5	48VDC @ 5A	240	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	149.95	134.95	119.95
2094936	SDR-240-48	10	48VDC @ 5A	240	88-264 @ 47-63/120-370	2.6A(115V)/1.3A(350V)	2.5 x 4.9 x 4.5	2.5	199.95	179.95	159.95
252655	DRP-48048	6	48VDC @ 10A	480	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	179.95	159.95	139.95
301306	DRP-480S-48	6	48VDC @ 10A	480	90-132/180-264 * @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	219.95	199.95	179.95
373106	DRT-480-48	6	48VDC @ 10A	480	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	89.95	84.95	79.95

\* Switch selectable † With Power Factor Correction ⚙ Blue Part No. = Limited Quantity Available

## DIN Mounting Rail



Part No.	Cross Ref. No.	Description	Material	Type	Length	1	10	100
248736	2094.0	Prepunched DIN mounting rail	Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")	\$6.95	\$6.25	\$5.49

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Pure-Sine-Wave DC/AC Inverters

- Output waveform: sine wave
- Thermostatically controlled cooling fan
- Low battery alarm, low battery shutdown, overtemperature, overload, short-circuit, reverse polarity protection
- Operating temperature: 0 ~ 40°C
- Working temperature: 0 ~ 60°C
- Output wave form THD: < 3%
- Output connector: 3-prong AC receptacle
- Output voltage: 120VAC (±3%) @ 60Hz
- Output voltage: 110VAC @ 60Hz
- Two-year warranty



PST-15S



PST-30S



TS-1500

\* Additional Sine-Wave Inverters available Online — Enter Web Code XEL

Part No.	Manufacturer	Mfr. Part No.	Output Power (W)	Efficiency (%)	Input Voltage Range (VDC)	Input Connector	Size (L" x W" x H")	Weight (lbs.)	Pricing	
									1	5
1943570	Samlex	PST-15S-12A	150	85	10.5 – 16.5	Cigarette lighter plug	8.3 x 5.8 x 2.6	2.9	\$129.95	\$109.95
672624	Samlex	PST-30S-12A	300	85	10.5 – 16.5	Screwdown terminals	8.4 x 5.8 x 2.6	3.3	159.95	139.95
673467	Samlex	PST-60S-12A*	600	85	10.7 – 16.5	Screwdown terminals	13.2 x 9.3 x 3.3	6.6	259.95	239.95
1952425	Mean Well	TS-1000-112AF*	1000	88	10.5 – 15.0	Screwdown terminals	15.5 x 7.2 x 2.8	9.5	499.95	449.95
1943545	Mean Well	TS-1500-112A*	1500	87	10.5 – 15.0	Screwdown terminals	16.5 x 8.7 x 3.5	7.5	699.95	629.95
1954498	Mean Well	TS-1500-124FR*	1500	89	21.0 – 30.0	Screwdown terminals	16.5 x 8.7 x 3.5	7.5	699.95	629.95

\* P/Ns 673467/1952425: with built-in GFCI



## 15 to 500-Watt Enclosed Converters

- 2:1 wide input range
- 100% burn-in test
- Working temp.: -10°C to +60°C
- Protection: short-circuit, overload and overvoltage

### SD-15 Series

- Built-in EMI filter, low ripple noise
- One-year warranty

### SD-25/SD-50/SD-100/SD-150 Series

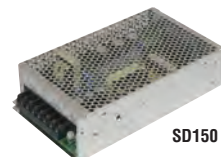
- Isolation voltage: 1500VDC
- Built-in EMI filter, low ripple noise
- One-year warranty

- SD-200/350 Series • Isolation volt.: 1500VDC • Cooling by free air convection • Fixed switching freq @ 83kHz • SD-200: One-year warranty; SD-350: Two-year warranty

### SD-500 Series

- Isolation voltage: 2000VAC
- DC input active surge current limiting
- Wide 4:1 ~ 2:1 SC input range
- Forced air cooling by built-in DC fan w/ fan speed control function
- Three-year warranty

\* Web Code: UBC



SD150

Jameco Part No.	Mfr. Part No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage @ Current	Power						1	10	25	50
175662	SD-25A-5	9-18V	+5V @ 5.0A	25.0W	3.9 x 3.8 x 1.4	5	0.5	0.5	100	\$34.95	\$29.95	\$26.95	\$23.95
212549	SD-50A-5	9-18V	+5V @ 10A	50.0W	6.3 x 3.8 x 1.5	5	0.5	0.5	100	41.95	37.95	33.95	29.95
1953882	SD-200B-5	19-36V	+5V @ 34A	170.0W	8.5 x 4.5 x 2.0	9	0.5	1.0	100	134.95	124.95	114.95	104.95
1953891	SD-350B-5	19-36V	+5V @ 57A	285.0W	8.5 x 4.5 x 2.0	9	0.5	1.0	100	159.95	149.95	139.95	129.95
1953807	SD-15A-12	9.2-18V	+12V @ 1.25A	15.0W	3.1 x 2.0 x 1.1	5	0.3	0.3	120	27.95	24.95	22.95	19.95
1953823	SD-15B-12	18-36V	+12V @ 1.25A	15.0W	3.1 x 2.0 x 1.1	5	0.3	0.3	120	27.95	24.95	22.95	19.95
1953840	SD-15C-12	36-72V	+12V @ 1.25A	15.0W	3.1 x 2.0 x 1.1	5	0.3	0.3	120	27.95	24.95	22.95	19.95
175805	SD-25A-12	9-18V	+12V @ 2.1A	25.2W	3.9 x 3.8 x 1.4	5	0.3	0.3	120	39.95	34.95	29.95	26.95
212531	SD-50B-12	19-36V	+12V @ 4.2A	50.4W	6.3 x 3.8 x 1.5	5	0.3	0.3	120	41.95	37.95	33.95	29.95
212506	SD-50C-12	36-72V	+12V @ 4.2A	50.4W	6.3 x 3.8 x 1.5	5	0.3	0.3	120	41.95	37.95	33.95	29.95
212469	SD-100C-12	36-72V	+12V @ 8.5A	102.0W	7.8 x 3.9 x 1.5	7	0.3	0.3	120	67.95	62.95	55.95	47.95
217270	SD-150B-12	19-36V	+12V @ 12.5A	150.0W	7.8 x 4.3 x 2.0	7	0.5	0.5	120	89.95	79.95	69.95	59.95
1953903	SD-200B-12	19-36V	+12V @ 16.7A	200.4W	8.5 x 4.5 x 2.0	9	0.5	1.0	100	134.95	124.95	114.95	104.95
1953920	SD-200C-12	36-72V	+12V @ 16.7A	200.4W	8.5 x 4.5 x 2.0	9	0.5	1.0	120	134.95	124.95	114.95	104.95
1953760	SD-200D-12	72-144V	+12V @ 16.7A	200.4W	8.5 x 4.5 x 2.0	9	0.5	1.0	120	134.95	124.95	114.95	104.95
1953962	SD-350B-12	19-36V	+12V @ 27.5A	330.0W	8.5 x 4.5 x 2.0	9	0.3	1.0	120	159.95	149.95	139.95	129.95
1953997	SD-350C-12	36-72V	+12V @ 27.5A	330.0W	8.5 x 4.5 x 2.0	9	0.3	1.0	120	159.95	149.95	139.95	129.95
1954033	SD-500L-12	19-72V	+12V @ 40A	480.0W	8.5 x 4.5 x 2.0	7	0.5	0.5	150	184.95	169.95	154.95	144.95
1954050	SD-500H-12	72-144V	+12V @ 40A	480.0W	8.5 x 4.5 x 2.0	7	0.5	0.5	150	184.95	169.95	154.95	144.95
175813	SD-25A-24	9-18V	+24V @ 1.1A	26.4W	3.9 x 3.8 x 1.4	5	0.2	0.2	150	34.95	31.49	27.95	24.95
212514	SD-50B-24	19-36V	+24V @ 2.1A	50.4W	6.3 x 3.8 x 1.5	5	0.2	0.2	150	41.95	37.95	33.95	29.95
1953954	SD-200B-24	19-36V	+24V @ 8.4A	201.6W	8.5 x 4.5 x 2.0	9	0.5	1.0	150	134.95	124.95	114.95	104.95
1953743	SD-200C-24	36-72V	+24V @ 8.4A	201.6W	8.5 x 4.5 x 2.0	9	0.5	1.0	150	124.95	109.95	99.95	89.95
1953971	SD-350B-24	19-36V	+24V @ 14.6A	350.4W	8.5 x 4.5 x 2.0	9	0.2	1.0	150	159.95	149.95	139.95	129.95
1954009	SD-350C-24	36-72V	+24V @ 14.6A	350.4W	8.5 x 4.5 x 2.0	9	0.2	1.0	150	149.95	139.95	129.95	119.95
1954025	SD-500L-24	19-72V	+24V @ 21A	504.0W	8.5 x 4.5 x 2.0	7	0.5	0.5	150	184.95	169.95	154.95	144.95
1953911	SD-200B-48	19-36V	+48V @ 4.2A	201.6W	8.5 x 4.5 x 2.0	9	0.5	1.0	150	134.95	124.95	114.95	104.95
1953946	SD-200D-48	72-144V	+48V @ 4.2A	201.6W	8.5 x 4.5 x 2.0	9	0.5	1.0	120	134.95	124.95	114.95	104.95
1954017	SD-350C-48	36-72V	+48V @ 7.3A	350.4W	8.5 x 4.5 x 2.0	9	0.2	1.0	150	149.95	139.95	129.95	119.95
1953989	SD-350B-48	19-36V	+48V @ 7.3A	350.4W	8.5 x 4.5 x 2.0	9	0.3	1.0	120	159.95	149.95	139.95	129.95



## Unregulated Encapsulated Converters

- Input range: 4.5-5.5V
- Ripple & noise: 100mV p-p
- Input filter: capacitor type
- Line & load regulation: ±1.0%
- Working temp.: -15°C to +60°C
- 1000VDC isolation
- 100% burn-in test
- Protection: short-circuit
- No external components needed
- One-year warranty



216831

\* Web Code: SBH

Part No.	Mfr. Part No.	Voltage @ Current	Power	Size (L"xW"xH")	Pins	Pricing		
						1	10	25
213226	SRS-0505	+5V @ 100mA	0.5W	.88 x .39 x .33	8	\$9.95	\$8.95	\$7.95
216831	SPR01L-12	+12V @ 84mA	1W	.77 x .28 x .40	4	9.95	8.95	7.95



## 10-Amp Point-of-Load Converters

### SIL10E Series, Single Output

- Planar magnetics technology
- Working temperature: -40°C to 100°C
- Protection: thermal & short-circuit
- Highest power density: 107W/in<sup>3</sup>
- Remote sense
- 11-pin
- Very high MTBF
- 96% efficiency at 3.3V



219117

\* Web Code: YBJ

Part No.	Input Range	Voltage @ Current	Power	1	10
219133	3.0-5.5V	2.5V @ 10A	25W	\$24.95	\$21.95
219117	4.5-5.5V	0.8-3.6V @ 10A	33W	29.95	24.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Encapsulated DC-to-DC Converters

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN



## Encapsulated DC-to-DC Converters

★ Web Code: NAX

### PDL02 Series

- SIP package
- External on/off control
- 2:1 wide input voltage range
- Continuous
- UL94V-0 case potting material
- Fixed switching frequency
- Two-year warranty

PDL02



### SCW03, SLW05, SCW05, SCW08, SKE10, SKA15 & SKE15 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- One-year warranty

SLW05



### FKC08 & FEC15 Series

- 2:1 & 4:1 wide input voltage range (depending on model)
- Short-circuit/overload protection
- Fixed switching frequency
- 1600VDC isolation
- Standard DIP package (24-pin)
- Two-year warranty

FKC08



### SCW12 & DCW12 Series

- 2:1 wide input voltage range • 1500VDC I/O isolation
- Short-circuit/overload protection
- Built-in EMI filter
- Built-in remote on/off control
- Five sided shielded metal case
- Two-year warranty

Jameco Part No.	Manufacturer	Mfr. Part No.	Input Range	Output		Size Inches (L" x W" xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing				
				Voltage @ Current	Power						1	10	25	50	
Single Output															
1943748	Power Mate	PDL02-05S3P3	4.5-9V	+3.3V @ 500mA	2W	0.86x0.36x0.44	7	0.5	0.85	50	\$17.95	\$15.95	\$14.95	\$13.95	
220354	Mean Well	SLW05A-033	9-18V	+3.3V @ 1500mA	5W	2.0x1.0x0.44	5	0.2	0.5	100	24.95	22.49	19.95	17.95	
220337	Mean Well	SKE10B-033	18-36V	+3.3V @ 2400mA	8W	2.0x1.0x0.44	5	0.3	0.5	50	19.95	16.95	14.95	12.95	
220345	Mean Well	SKE10C-033	36-72V	+3.3V @ 2400mA	8W	2.0x1.0x0.44	5	0.3	0.5	50	14.95	13.95	12.95	11.95	
1944071	Power Mate	FEC15-24S3P3	18-36V	+3.3V @ 4000mA	15W	2.0x1.0x0.4	6	0.5	0.5	50	39.95	36.95	34.95	32.95	
1943772	Power Mate	PDL02-12S05	9-18V	+5V @ 400mA	2W	0.86x0.36x0.44	7	0.5	0.75	50	17.95	15.95	14.95	13.95	
213269	Mean Well	SCW03A-05	9-18V	+5V @ 600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	19.95	17.95	15.95	14.49	
1953292	Mean Well	SCW05A-05	9-18V	+5V @ 1000mA	5W	1.25x0.8x0.48	8	0.5	0.5	50	19.95	17.95	15.95	14.49	
216929	Mean Well	SLW05A-05	9-18V	+5V @ 1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95	
216937	Mean Well	SLW05B-05	18-36V	+5V @ 1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	22.95	19.95	17.95	15.95	
1953313	Mean Well	SCW05B-05	18-36V	+5V @ 1000mA	5W	1.25x0.8x0.48	8	0.5	0.5	50	19.95	17.95	15.95	14.49	
213234	Mean Well	SLW05C-05	36-72V	+5V @ 1000mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	24.95	22.49	19.95	17.95	
216962	Mean Well	SKE10A-05	9-18V	+5V @ 2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	32.95	28.95	25.95	22.95	
216953	Mean Well	SKE10B-05	18-36V	+5V @ 2000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	29.95	26.95	23.95	21.49	
216945	Mean Well	SKE10C-05	36-72V	+5V @ 2000mA	10W	2.0x1.0x0.44	5	0.3	1.0	50	29.95	26.95	23.95	21.95	
1953428	Mean Well	SCW12A-05	9-18V	+5V @ 2400mA	12W	1.25x0.8x0.48	9	0.5	0.5	50	37.95	33.95	29.95	26.95	
1953461	Mean Well	SCW12C-05	36-72V	+5V @ 2400mA	12W	1.25x0.8x0.48	9	0.5	0.5	50	34.95	31.95	28.95	26.49	
155716	Mean Well	SKE15A-05	9-18V	+5V @ 3000mA	15W	2.0x2.0x0.43	5	0.3	0.5	50	32.95	29.95	27.49	24.95	
213277	Mean Well	SKE15B-05	18-36V	+5V @ 3000mA	15W	2.0x2.0x0.43	5	0.3	0.5	50	32.95	29.95	27.49	24.95	
216911	Mean Well	SLW05B-12	18-36V	+12V @ 417mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	19.95	17.95	15.95	14.49	
1953495	Mean Well	SCW08A-12	9-18V	+12V @ 670mA	8W	1.25x0.8x0.48	8	0.5	0.5	60	21.95	19.49	17.49	15.95	
1943844	Power Mate	FKC08-24S12W	9-36V	+12V @ 670mA	8W	1.25x0.8x0.4	9	0.2	0.5	50	29.95	26.95	24.95	22.95	
1953516	Mean Well	SCW08B-12	18-36V	+12V @ 670mA	8W	1.25x0.8x0.48	8	0.5	0.5	60	21.95	19.49	17.49	15.95	
217024	Mean Well	SKE10B-12	18-36V	+12V @ 840mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	29.95	26.95	23.95	21.95	
1953452	Mean Well	SCW12B-12	18-36V	+12V @ 1000mA	12W	1.25x0.8x0.48	9	0.5	0.5	60	34.95	29.95	27.49	24.95	
1953479	Mean Well	SCW12C-12	36-72V	+12V @ 1000mA	12W	1.25x0.8x0.48	9	0.5	0.5	60	34.95	29.95	27.49	24.95	
1953161	Mean Well	SKA15A-12	9-18V	+12V @ 1250mA	15W	2.0x1.0x0.44	5	0.2	0.5	60	32.95	30.95	27.95	24.95	
155708	Mean Well	SKE15A-12	9-18V	+12V @ 1250mA	15W	2.0x2.0x0.43	5	0.3	0.5	60	32.95	29.95	27.49	24.95	
213285	Mean Well	SKE15B-12	18-36V	+12V @ 1250mA	15W	2.0x2.0x0.43	5	0.3	0.5	60	32.95	29.95	27.49	24.95	
1953170	Mean Well	SKA15B-12	18-36V	+12V @ 1250mA	15W	2.0x1.0x0.44	5	0.2	0.5	60	32.95	29.95	27.49	24.95	
1953196	Mean Well	SKA15C-12	36-72V	+12V @ 1250mA	15W	2.0x1.0x0.44	5	0.2	0.5	60	32.95	29.95	27.49	24.95	
1953153	Mean Well	SKA15A-05	9-18V	+12V @ 3000mA	15W	2.0x1.0x0.44	5	0.2	0.5	50	24.95	22.49	19.95	17.95	
1954172	Mean Well	SKA15B-05	18-36V	+12V @ 3000mA	15W	2.0x1.0x0.44	5	0.2	0.5	50	24.95	22.49	19.95	17.95	
216882	Mean Well	SLW05A-15	9-18V	+15V @ 333mA	5W	2.0x1.0x0.44	5	1.0	0.2	100	21.95	19.49	17.49	15.95	
216980	Mean Well	SKE10A-15	9-18V	+15V @ 666mA	10W	2.0x1.0x0.44	5	0.3	1.0	60	26.95	24.95	22.95	20.95	
155695	Mean Well	SKE15A-24	9-18V	+24V @ 625mA	15W	2.0x2.0x0.43	5	0.3	0.5	80	37.95	33.95	29.95	26.95	

Encapsulated Converters continued on next page



Need special orders or pricing?

Call us at 1-800-831-4242

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

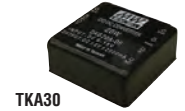


## Encapsulated DC-to-DC Converters (Continued)

### DCW03, DCW05, DCW08, DKE10, DKA15 & DKE15 Series

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Cooling by free air convection
- Shield metal case
- 2:1 wide input range
- One-year warranty

★ Web Code: NAX



### SCW12 & DCW12 Series

- 2:1 wide input voltage range
- 1500VDC I/O isolation
- Built-in EMI filter
- Built-in remote on/off control
- Five sided shielded metal case
- Short-circuit/overload protection
- Two-year warranty

### DKA30, TKA30 & TKB20 Series

- 1000VDC I/O isolation
- 2:1 wide input range
- Cooling by free air convection
- Remote on/off control
- Short-circuit/overload protection
- Six sided shielded metal case
- One-year warranty

Jameco Part No.	Manufacturer	Mfr. Part No.	Input Range	Output		Size (L"xW"xH")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
				Voltage@Current	Power						1	10	25	50
Dual Output														
155919	Mean Well	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	\$19.95	\$17.95	\$15.95	\$14.49
217032	Mean Well	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2.0x1.0x0.44	5	0.3	0.5	50	29.95	26.95	24.49	21.95
1954421	Mean Well	DCW12A-05	9-18V	+5V@1200mA; -5V@1200mA	12W	1.25x0.8x0.48	9	0.5	0.5	50	29.95	26.95	24.49	21.95
1954076	Mean Well	DCW12C-05	36-72V	+5V@1200mA; -5V@1200mA	12W	1.25x0.8x0.48	9	0.5	0.5	50	29.95	26.95	24.49	21.95
1953065	Mean Well	DKA15A-05	9-18V	+5V@1500mA; -5V@1500mA	15W	2.0x1.0x0.44	5	0.2	0.5	50	29.95	26.95	24.49	21.95
1953081	Mean Well	DKA15B-05	18-36V	+5V@3000mA; -5V@1500mA	15W	2.0x1.0x0.44	5	0.2	0.5	50	29.95	26.95	24.49	21.95
1954121	Mean Well	DKA30C-05	36-72V	+5V@2500mA; -5V@2500mA	25W	2.0x2.0x0.82	8	0.5	0.5	100	37.95	34.95	31.95	29.95
161702	Mean Well	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	17.95	15.95	14.49	12.95
1953276	Mean Well	DCW05C-12	36-72V	+12V@230mA; -12V@230mA	5.5W	1.25x0.8x0.48	8	0.5	0.5	60	19.95	17.95	15.95	14.49
1953241	Mean Well	DCW05A-12	9-18V	+12V@230mA; -12V@230mA	5.5W	1.25x0.8x0.48	8	0.5	0.5	60	22.95	19.95	17.95	15.95
1953356	Mean Well	DCW08A-12	9-18V	+12V@335mA; -12V@335mA	8W	1.25x0.8x0.48	8	0.5	0.5	60	26.95	24.49	21.95	19.95
1953399	Mean Well	DCW08C-12	36-72V	+12V@335mA; -12V@335mA	8W	1.25x0.8x0.48	8	0.5	0.5	60	26.95	24.49	21.95	19.95
217092	Mean Well	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	29.95	26.95	24.49	21.95
1953022	Mean Well	DCW12B-12	18-36V	+12V@500mA; -12V@500mA	12W	1.25x0.8x0.48	9	0.5	0.5	60	29.95	26.95	24.49	21.95
1953049	Mean Well	DCW12C-12	36-72V	+12V@500mA; -12V@500mA	12W	1.25x0.8x0.48	9	0.5	0.5	60	29.95	26.95	24.49	21.95
161729	Mean Well	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15W	2.0x2.0x0.43	5	0.3	0.5	60	32.95	29.95	26.95	24.49
1953090	Mean Well	DKA15B-12	18-36V	+12V@625mA; -12V@625mA	15W	2.0x1.0x0.44	5	0.2	0.5	60	32.95	29.95	26.95	24.49
1953102	Mean Well	DKA15C-12	36-72V	+12V@625mA; -12V@625mA	15W	2.0x1.0x0.44	5	0.2	0.5	60	32.95	29.95	26.95	24.49
1953364	Mean Well	DCW08A-15	9-18V	+15V@267mA; -12V@267mA	8W	1.25x0.8x0.48	8	0.5	0.5	60	29.95	26.95	24.49	21.95
1953381	Mean Well	DCW08B-15	18-36V	+15V@267mA; -12V@267mA	8W	1.25x0.8x0.48	8	0.5	0.5	60	26.95	24.49	21.95	19.95
217112	Mean Well	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	29.95	26.95	24.49	21.95
217075	Mean Well	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2.0x1.0x0.44	5	0.3	0.5	60	32.95	29.95	26.95	24.49
1953111	Mean Well	DKA15C-15	36-72V	+15V@500mA; -15V@500mA	15W	2.0x1.0x0.44	5	0.2	0.5	60	32.95	29.95	26.95	24.49
1954130	Mean Well	DKA30A-15	9-18V	+15V@1000mA; -15V@1000mA	30W	2.0x2.0x0.82	8	0.5	0.5	100	42.95	38.95	34.95	31.49
213293	Mean Well	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2.0x2.0x0.43	5	0.3	0.5	80	32.95	29.95	26.95	24.49
Triple Output														
217648	Mean Well	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20W	1.2x2.0x0.82	8	0.2	0.2	100	\$28.95	\$25.95	\$23.95	\$21.95
1953217	Mean Well	TKA30B-B	18-36V	+5V@310mA; ±12V@310mA	25W	2.0x2.0x0.82	8	5.0	5.0	100	39.95	36.95	32.95	29.95



## Isolated Open-Frame DC-to-DC Converters

- Isolation voltage: 1500VDC
- 100% burn-in test
- Industry standard footprint
- Remote ON/OFF
- Two-year warranty

CXA20: 4:1 input voltage range

CXE15/CXA20/EXQ60: No minimum load



Jameco Part No.	Product No.	Input Range	Output		Size (L" x W" x H")	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing		
			Voltage@Current	Power						1	10	25
219070	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2.0 x 1.0 x 0.35	6	0.3	2.0	40	\$26.95	\$24.95	\$22.95
219088	CXE15-48S2V5	33-75V	+2.5V@6000mA	15W	2.0 x 1.0 x 0.35	6	0.3	1.5	40	26.95	24.95	22.95
218894	EXQ60-48D3V3-2V5-R	33-75V	+2.5V@16A; +3.3V@12A	40W	2.3 x 1.5 x 0.50	7	—	—	60	74.95	69.95	64.95
219053	CXE15-48S3V3	33-75V	+3.3V@4500mA	15W	2.0 x 1.0 x 0.35	6	0.1	0.5	70	26.95	24.95	22.95
219109	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2.0 x 1.6 x 0.41	8	0.1	0.2	75	29.95	26.95	24.95
218907	EXQ60-48D05-3V3-R	33-75V	+3.3V@15A; +5V@12A	60W	2.3 x 1.5 x 0.50	7	—	—	60	74.95	69.95	64.95

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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Lithium, NiCd & NiMH Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

Save 10% or more on most batteries!



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

### Lithium

\*Web Code: GCF

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
673627	NB4414/F9D	Panasonic	5	Coin cell	2.0	1.0	4.8mm body w/ tabs (2)	0.18"Dia. x 0.06"Thick	\$0.59	\$0.49	\$0.45
673601	NBL621/F9DE	Various	—	Coin cell	2.0	4.0	Vertical PC mount	0.27"Dia. x 0.10"Thick	.95	.85	.79
1950665	CR2016	Various	5	Coin cell	3	90	20mm body w/ tabs (2)	0.80"Dia. x 0.07"Thick	.65	.59	.55
11789	CR2325	Various	5	Coin cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Thick	1.79	1.59	1.45
14162	CR2032	Various	5	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.25	1.09	.99
1585451	DL2032	Duracell	5	Coin cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Thick	1.49	1.35	1.19
1954631	BR2330	Various	5	Coin cell	3	255	Clock/memory/watch (w/ legs)	0.90"Dia. x 0.14"Thick	1.49	1.35	1.19
689071	DL2450	Various	5	Coin cell	3	600	Clock/memory/watch	0.95"Dia. x 0.18"Thick	2.25	1.95	1.75
126754	TL5101S	Tadiron	6	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	4.75	4.25	3.55
240266	ER14250	ReliaPro	7	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	4.25	3.95	3.55
263898	ER14250	ReliaPro	8	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.75	4.25	3.85
33371	TL5101P	Tadiron	2	1/2AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	6.25	5.65	4.95
673635	CA1/2AA	Various	8	1/2 AA	3	950	Barrel w/ leads (2)	1.0"L x 0.58"Dia.	1.95	1.75	1.49
33398	TL5104P	Tadiron	3	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	6.95	6.25	5.65
146114	TL2100S	Various	4	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.25	5.65
240303	ER14505	ReliaPro	9	AA	3.6	2400	Consumer tip	2.00"L x 0.55"Dia.	5.95	5.35	4.95
240160	ER26500	ReliaPro	10	C	3.6	8500	Consumer tip	2.00"L x 1.02"Dia.	9.95	8.95	7.95
240258	CR123A	ReliaPro	1	A	3	1300	Photo/computer	1.36"L x 0.65"Dia.	2.75	2.49	2.25
263935	ER14505	ReliaPro	12	AA	3.6	2100	With solder tabs	2.00"L x 0.55"Dia.	5.95	5.35	4.95

### NiCd – Rechargeable

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
261657	AA-700-CT	ReliaPro	13	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	\$1.69	\$1.49	\$1.35
244515	AA-1000-CT	ReliaPro	13	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.75	2.49	2.25
126720	351FT	Various	14	N/A	3.6	60	2-lead (pin), barrel	0.72"L x 0.61"Dia.	4.49	3.95	3.55
119116	3/V60R	Dantona	14	N/A	3.6	60	3-lead (pin), barrel	0.72"L x 0.61"Dia.	3.35	2.95	2.65
101653	NA101-1	Various	15	N/A	3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	3.95	3.55	3.19

### NiMH – Rechargeable

Part No.	Product No.	Manufacturer	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
231095	AAA-750NM	Dantona	18	AAA	1.2	600	Consumer tip	1.70"L x 0.40"Dia.	\$3.45	\$3.09	\$2.79
244822	AA-1800-CT	ReliaPro	16	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	3.55	3.19	2.89
231087	AA-1800NM	Dantona	19	AA	1.2	1600	Consumer tip	1.90"L x 1.30"Dia.	3.95	3.55	3.19
244620	9V-200	Bao Tong USA	17	9V	9	200	Snap	1.94"L x 0.65"Dia.	9.75	8.75	7.95
231108	9V-8.4NM	Dantona	21	9V	9	150	Snap	1.04"L x 0.61"Dia. x 1.80"H	10.95	9.95	8.95
231124	D-900NM	Dantona	20	D	1.2	9000	Consumer tip	2.30"L x 1.30"Dia.	14.95	13.49	11.95

## Lead Acid Batteries

\*Web Code: LBR



- Use with UPS Backup Systems, Security Fire Alarms, Wheel Chairs, Scooters
- Sealed • UL approved • Rechargeable
- Two-year warranty



264014



264031



318924



264057



264065



264073

Lead Acid Chargers on next page

Part No.	Mir. Part No.	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size ("L" x "W" x "H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
138692	K9120-REVC	6	1.3	Honeywell	—	—	—	Quick connect 0.187"	2.1 x 1.0 x 3.8	0.7	\$3.49	\$2.95
264014	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	11.95	10.75
317024	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	19.95	17.95
318844	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	14.95	13.45
264031	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	19.95	17.95
318924	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	22.95	20.65
264057	TY-12-7.5	12	7.5	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 3.7	5.6	22.95	20.65
264065	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	39.95	35.95
264073	TY-12-18	12	18.0	LCR12V17BP	NP618-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	47.95	42.95
318852	LA-TY-12-35	12	35.0	—	—	—	—	Nut & bolt	7.6 x 5.1 x 6.3	27.6	74.95	67.45

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

JAMECO ReliaPro

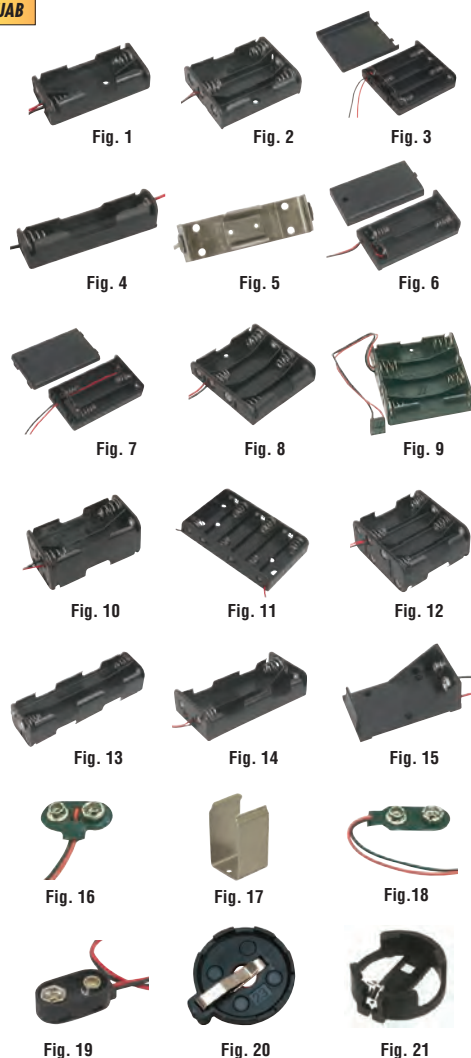
## Battery Holders

★ Web Code: UAB

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders. \* Order in multiples of 10

Part No.	Cross Ref. No.	*Mfr.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216283	BH-421-1A	JRP	1	2-AAA	Wires	Single		\$.59	\$.55	\$.49	\$.39
216303	BH-431-1A	JRP	2	3-AAA	Wires	Single		.79	.69	.65	.59
216312	SBH-431-1AS	JRP	2	3-AAA	Wires	Single	w/ cover & switch	.95	.85	.75	.69
216339	SBH-441-AS	JRP	3	4-AAA	Wires	Single	w/ cover & switch	1.45	1.29	1.19	.89
216072	BH-311-2A	JRP	4	1-AA	Wires	Single	Aluminum	1.05	.95	.85	.75
643954	139	KEY	5	1-AA	Tabs	Single		.75	.69	.59	.55
216081	BH-321-2A	JRP	1	2-AA	Wires	Single		.75	.69	.59	.55
216099	BH-321-4A	JRP	1	2-AA	Wires	Single	w/ mounting tabs	.75	.69	.59	.55
216102	SBH-321-2A	JRP	6	2-AA	Wires	Single	w/ cover, no switch	.75	.69	.59	.55
216120	SBH-321-1AS	JRP	6	2-AA	Wires	Single	w/ cover & switch	.89	.79	.72	.65
216136	BH-331-A	JRP	2	3-AA	Wires	Single		.85	.77	.69	.62
216144	SBH-331-AS	JRP	7	3-AA	Wires	Single	w/ cover & switch	.79	.69	.65	.59
216152	BH-341-2A	JRP	8	4-AA	Wires	Single		1.15	1.05	.95	.85
105858	BH-PC	JRP	9	4-AA	Wires	Single	wires w/ connector	.95	.85	.79	.64
216179	BH-343-1A	JRP	10	4-AA	Wires	Dual		.79	.69	.65	.59
216187	SBH-341-1AS	JRP	3	4-AA	Wires	Single	w/ cover & switch	1.05	.95	.85	.75
216216	BH-363-A	JRP	11	6-AA	Wires	Dual		.75	.69	.59	.55
216223	BH-364-A	JRP	11	6-AA	Wires	Single		.95	.85	.79	.65
216240	BH-383-A	JRP	12	8-AA	Wires	Dual		1.09	.99	.89	.69
216267	BH-383-B	JRP	12	8-AA	Snap	Dual		1.19	1.09	.99	.79
216259	BH-382-B	JRP	13	8-AA	Snap	Dual		1.35	1.19	1.09	.79
216292	SBH-421-AS	JRP	1	2-AAA	Wires	Single	w/ cover & switch	.65	.59	.55	.49
216363	BH-242-1A	JRP	14	4-C	Wires	Single		1.09	.99	.89	.69
216371	BH-111-1A	JRP	4	1-D	Wires	Single		.69	.65	.59	.49
216390	BH-121-1A	JRP	1	2-D	Wires	Single		1.19	1.09	.95	.79
216401	BH-142-A	JRP	14	4-D	Wires	Single		1.35	1.19	1.09	.89
216427	BH-9V-A	JRP	15	1-9V	Wires	Single		.75	.69	.59	.55
11280	A104-R	JRP	16	1-9V	Wires	Single	3"L, 26AWG, snaps	.39	.35	.29	.25
105794	GBH-1009-R	JRP	17	1-9V	Wires	Single	Metal holder	.35	.32	.29	.25
1949488	BAT-SNAP-4	+	18	1-9V	Wires	Single	4"L, 26AWG, snaps	*	.17	.14	.10
109154	BC6-R	JRP	18	1-9V	Wires	Single	6"L, 26AWG, snaps	.29	.26	.23	.19
216452	SBS-IR-1-R	JRP	19	1-9V	Wires	Single	6"L, 26AWG, snaps	.35	.32	.29	.25
101470	A102-R	JRP	18	1-9V	Wires	Single	10"L, 26AWG, snaps	.35	.32	.29	.25
236996	103	KEY	20	1-CR2032	PC mount	Coin cell		1.65	1.49	1.35	1.19
355434	17002-00603	JRP	21	1-CR2032	PC mount	Coin cell		.79	.69	.65	.59
38543	2S2325	JRP	20	1-CR2354 or 2- CR2325	PC mount	Coin cell		.79	.69	.65	.59

§ Battery holder used in many personal computers

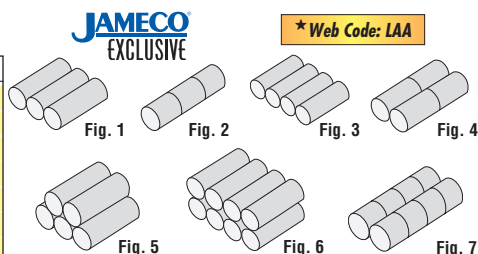


JAMECO ReliaPro

## Rechargeable Battery Packs

★ Web Code: LAA

Part No.	Fig.	Volt	Cell	Size (L x Dia.)	Type	mAh	Connection	1	10	25
299090	1	3.6	AA Single	1.92" x 0.56" (48.8mm x 14.2mm)	NiCd	700	Lead wire	\$8.45	\$7.49	\$6.75
298821	2	3.6	D Single	2.36" x 1.26" (59.9mm x 32.0mm)	NiCd	5000	Solder tab	19.95	17.95	—
298652	3	4.8	SC Single	2.36" x 1.26" (59.9mm x 32.0mm)	NiCd	2200	Solder tab	15.95	14.49	12.95
299621	4	4.8	D Single	2.36" x 1.26" (59.9mm x 32.0mm)	NiCd	5000	Lead wire	34.95	31.49	—
299680	5	6.0	D Single	2.36" x 1.26" (59.9mm x 32.0mm)	NiCd	5000	Lead wire	46.95	42.25	37.95
299461	6	9.6	SC Single	1.65" x 0.86" (41.1mm x 21.8mm)	NiCd	2200	Lead wire	29.95	26.95	24.25
299495	7	9.6	SC Single	1.65" x 0.86" (41.1mm x 21.8mm)	NiCd	2200	Lead wire	24.95	22.45	—



## 300, 360 & 1000-Watt Single Output Lead Acid Battery Chargers

★ Web Code: ABC

- Input: 115VAC/230VAC @ 47-64Hz (switch-selectable)
- 1952409/1952417/1954332/1954341/1954359:** with built-in passive PFC function
- Overload, short-circuit, reverse polarity, over voltage, over temperature protection
- 1952409:** Cooling by free-air convection;
- 1952417/1954308/1954316/1954324:** Fan on/off control (depending on charging current) • Charger for lead acid batteries
- 1954316/1954324:** Size: 10.0"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- 1952409/1952417/1954308:** Size: 9.3"L x 5.3"W x 1.9"H, Weight: 3.3 lbs.
- 1954332/1954341/1954359:** Size: 11.8"L x 7.2"W x 2.8"H, Weight: 7.7 lbs.



1952409

Part No.	Mfr. Part No.	Watts	Boost Charge Voltage	Float Charge Voltage	Recommended Battery Capacity (AMP Hours)	Pricing	
						1	10
1952409	PB-300P-12	300	14.4	13.6	80-200	\$94.95	\$84.95
1952417	PB-360P-12	360	14.4	16.6	80-200	99.95	89.95
1954308	PB-360N-12	360	14.4	13.6	80-200	99.95	89.95
1954316	PB-360N-24	360	28.8	27.2	40-125	99.95	89.95
1954324	PB-360N-48	360	57.6	54.4	20-65	99.95	89.95
1954332	PB-1000-12	1000	14.4	13.8	200-600	379.95	339.95
1954341	PB-1000-24	1000	28.8	27.6	120-350	379.95	339.95
1954359	PB-1000-48	1000	57.6	55.2	60-175	379.95	339.95

\* JRP = Jameco ReliaPro | KEY = Keystone | + Manufacturer Varies

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## Energizer®, Duracell® & Rayovac® Alkaline Batteries



### Alkaline

Part No.	Size	1	10
198731	9-volt Energizer®	\$2.05	\$1.85
198791	9-volt Duracell®	2.95	2.65
150965	4.5V @ 600mAh Rayovac®	9.95	8.95
215845	3.6V D-cell Energizer®	1.15	1.05

Part No.	Size	Min	1	40	100
198707	AA Energizer®	4	.79	.69	.65
115432	AAA Duracell®	2	.69	.59	.49
198715	AAA Energizer®	4	.69	.59	.55

†Sold in multiples of 4 ‡Sold in multiples of 2

\* Web Code: NBF

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## Silver Oxide and Zinc Chloride Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



Part No.	Cross Ref.	Description	1	10
140783	357	Silver oxide, button	\$1.55	\$1.39
151095	GF6F22	Zinc chloride, 9V	1.35	1.19



## Universal NiCd/NiMH Charger

- Recharge batteries individually or as a group
- Fast charging in the specified period with an automatic switch for trickle charge

\* Web Code: PBF

Part No.	Mfr. Part No.	Compatible Battery	1	10	25
231132	CHG-6P	AAA, AA, C, D, 9V	\$19.95	\$17.95	\$15.95



## Compact Charger with Two 9V NiMH Batteries

- 120VAC 2-watt wall mount
- LED charge indicator per battery
- Trickle charges overnight at 16mA per battery

Includes: Two 160mAh 9V batteries



Part No.	Mfr. Part No.	1	10	25
2081684	1000-077	\$8.95	\$7.95	\$6.95



## Automatic Lead Acid Battery Chargers

- Safely charge and maintain lead acid batteries without supervision
- Safe for gel cell batteries • Extends battery life
- Multi-stage charging circuit prevents batteries from overcharging
- High frequency MOSFET switching design
- Input voltage: 98 to 132VAC @ 50/60Hz
- Short-circuit, overload, and reverse polarity protection
- Analog amp meter • Output banks: 3

\* Web Code: ABC

Part No.	Mfr. Part No.	Output Volt.	Size (L"xW"xH")	Wt. (lbs.)	1	10
673416	SEC-1215A	13.5VDC@15A	8.5 x 8.4 x 3.3	4.8	\$145.95	\$131.95
673432	SEC-2415A	27.0VDC@15A	10.8 x 8.4 x 3.3	6.4	239.95	215.95



## Compact Battery Tester

Simply lift the swivel arm of this battery tester between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V and button cell batteries.



Part No.	Mfr. Part No.	1	10
239556	BATTEST	\$3.75	\$3.39

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## Panel Meters

### 0.6" High 3½ & 4½-Digit LCD Digital Panel Meters



- Input ranges: 200mV, 20V, 200V, 500V
- Accuracy: ±0.5%
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095, above right)
- Automatic polarity indication
- Input impedance: >100MΩ
- Size: 2.7"W x 1.7"H

\* Web Code: WBU

Part No.	Cross Ref. No.	Description	1	10	25
108388	PM-428	3½-digit (no bezel, snap mount)	\$10.95	\$9.95	\$8.95
175951	PM-128	3½-digit (bezel, screw mount)	12.95	11.65	10.49
146835	PM-188BL	3½-digit (with backlight display)	14.95	13.45	11.95
123140	PM-328	4½-digit (bezel, screw mount)	29.95	26.95	24.25



## EM Series Panel Meters

- Splashproof
- Mount by simply drilling a single hole (7/32") and insert the threaded section of the panel meter
- Module size: 1.71"L x 0.84"W

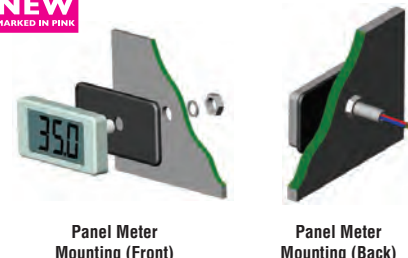


Part No.	Mfr. Part No.	Description	Digit Ht.	Supply Volt.	Measrmt. Range	1	10	25
2095040	EMV 1200	3-digit, signal pwrd, LCD voltmeter	.50"	3-50VDC	4-25VDC	\$33.95	\$30.95	\$27.95
2095058	EMT 1900	3½-digit, LCD thermometer	.50"	4-28VDC	14-122°F	33.95	30.95	27.95
2095074	EMC 1500	5-digit, LCD hour meter	.35"	5-27VDC	99999 hours	33.95	30.95	27.95
2095082	EMA 1710	Analog-style LCD panel meter	—	5-12VDC	0-1VDC	33.95	30.95	27.95

### Analog Panel Meters

- Includes mounting hardware
- 316507: Includes current shunt

Part No.	Mfr. P/N	Range	Size (W"xH"xD")	1	10
316603	AVM6015	0-15VDC	2.4 x 1.8 x 1.3	\$9.95	\$8.95
316671	AVM7015	0-15VDC	2.8 x 2.4 x 1.4	9.95	8.95
316638	AVM6030	0-30VDC	2.4 x 1.8 x 1.3	9.95	8.95
316654	AVM7030	0-30VDC	2.8 x 2.4 x 1.4	9.95	8.95
316718	AVM60150	0-150VAC	2.4 x 1.8 x 1.3	9.95	8.95
316785	AVM60300	0-300VAC	2.4 x 1.8 x 1.3	9.95	8.95
315301	AIM60005	0-50µA	2.4 x 1.8 x 1.3	9.95	8.95
316523	AIM6050	0-50mA	2.4 x 1.8 x 1.3	9.95	8.95
316486	AIM60100	0-100mA	2.4 x 1.8 x 1.3	9.95	8.95
316558	AIM60500	0-500mA	2.4 x 1.8 x 1.3	9.95	8.95
316566	AIM60500	0-5A	2.4 x 1.8 x 1.3	9.95	8.95
316582	AIM705000	0-5A	2.8 x 2.4 x 1.4	9.95	8.95
316494	AIM6010A	0-10A	2.4 x 1.8 x 1.3	9.95	8.95
316507	AIM6030A	0-30A	2.4 x 1.8 x 1.3	12.95	11.65



RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Environmental Meters & Testers



F of V: Field of View (Distance to target)

Part No.	Mfr.	Mfr. Part No.	Description	NEW MARKED IN PINK	* Web Code: EMT	1	5
1537299	Extech	IR100	Thermometer, Mini IR, measures temp.(-31 to 446°F) F of V 1:1			\$39.95	\$36.95
164321	Fluke	FLUKE-65	Thermometer, Non-Contact Infrared w/ Laser Pointer, measures temp.(-40° to 932°F) F of V 8:1			239.95	224.95
219361	Extech	IR-201	Thermometer, Pocket IR w/ Laser Pointer, measures temp.(-58° to 518°F) F of V 6:1			59.95	56.95
214480	Fluke	FLUKE-52-2	Thermometer, measures temp.(-328° to 2501°F)			249.95	—
198045	Extech	445703	Thermometer, Digital Hygro & Humidity Meter w/ Indoor Readings, measures temp.(14° to 140°F) & RH (10-99%),			39.95	37.95
1939634	Extech	445713	Thermometer, Digital Hygro/Humidity Meter w/ Indoor & Outdoor Readings & Remote Sensor on 35" cable, temp.(14° to 140°F) & RH (10-99%)			44.95	39.95
218085	Extech	45118	Thermo-Anemometer, Mini, measures temp.(0° to 122°F) & air velocity (1.1 to 62.5mph)			99.95	89.95
1939731	Extech	RPM10	Thermometer, IR & Tachometer, measures temp.(-4° to 600°F) & RPM: photo tach.(10 to 99,999 rpm), contact tach.(.5 to 19,999 rpm) & surface speed.(.2 to 6560 feet/min or .05 to 1999.9 miles/min)			289.95	269.95
2094266	Extech	DA50	AC current detector, telescoping 3', non contact, 200-1000A @ 50/60Hz, for shielded and hidden wires			39.95	37.95
1585899	Extech	CB100	AC Circuit Breaker Finder & Receptacle Tester, locates 110 to 125 volt AC circuits & fuses and has push button GFCI test			29.95	27.95
2094282	Extech	RT30	AC Circuit Identifier, wireless remote, confirms correct circuit is open mid-wire, w/o having to connect directly to the wires			129.95	119.95
1940248	Extech	C010	Carbon Monoxide (CO) Meter, measures CO levels (0 to 1000ppm)			239.95	219.95
1581169	Extech	FG100	Combustible Gas Leak Meter, detects: LNG, LPG from 500 to 6500 ppm			65.95	59.95
2094291	Extech	DT100	Distance meter, ultrasonic, laser pointer IDs targets from 20" to 50", calculates: sum of measurements, area and volume			39.95	36.95
131764	Various	LX-102	Light Meter, Digital, ranges: LUX 0 to 50,000, footcandle 0 to 5,000			109.95	89.95
1581142	Extech	RH300	Psychrometer, Digital, measures: %RH (10 to 90%), temp.(int.-4° to 122°F, ext.-4 to 158°F) dew point (-90.4° to 122°F), & wet bulb (-6.9° to 122°F)			79.95	74.95
1939642	Extech	480836	RF EMF Strength Meter, measures frequency (50MHz to 3.5GHz)			229.95	209.95
645642	Extech	407730	Sound Level Meter, Digital, decibel range (40dB to 130dB)			89.95	79.95
667526	Fluke	LVD1	Voltage Detector & Flashlight, detects voltages from 40VAC to 300VAC, 1-15' away			29.95	26.95
2094274	Extech	DV50	Voltage detector, telescoping 3', non contact, 5-1000VAC @ 50/60Hz, for shielded and hidden wires			29.95	27.95
1537272	Extech	CT20	Remote & Local Continuity Tester, drives a 20mA DC current pulse through wires & cables for test			29.95	26.95
115895	BenchPro	251450	UTP Ethernet Cable Tester, Tests: open circuit, shorts, & miswire, connector type: RJ45 8P8C, tests: AT&T Ethernet, 10Base-T, 258A, & 356A cables			29.95	26.95
1928468	Vastech	KT45	Cable Tester for Network & CATV, auto test for continuity, miswires, shorts, open circuits, & reversals			39.95	35.95
145710	BenchPro	145710	Modular Cable Test, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables, tests: continuity, miswiring, open circuits, shorts, grounding & pin configurations, includes 4 adapters			69.95	62.95
198002	Extech	40180	Tone Generator & Amplifier Probe, tests: wire trace, continuity, clear/busy/ringing line, & tip/ring ID			79.95	72.95
615136	GC Elec	45-5767	LANtest Network & Modular Cable Test, tests 10Base-T, 10Base-2, RJ45/RJ11, 356A, TIA568A/568B, & Token Ring cables			99.95	89.95
681504	BK Prec	1253	HDTV Portable Pattern Generator for: Plasma, LCD, TFT, CRT, DLP, GLV, & OLED digital systems			399.95	369.95
14285	BenchPro	RS232	RS232 line tester, identifies simple interface problems on lines 2-6, 8, 11, 19, 20			7.95	6.95
26729	BenchPro	31D3	RS232 mini line tester, tests any RS232 (DB25) interface 7 bi-color LEDs indicate status			7.95	6.95
105196	Various	TRIPOINT	RS232 signal adapter/splitter, metal connectors DB25 F/m & DB9F gold plate DC contacts			8.95	7.95

## Passive Component R/C SMD Tweezer Meter

One hand operation for fast, precise identification and measure of surface mount components.



- 4000 count LCD display
- Over range & low battery indicators
- Measures resistance, capacitance and diode test
- Relative mode for zero or user applied reference
- **Capacitance range:** 4nF, 40nF, 400nF, 4µF, 40µF, 200µF
- **Resistance range:** 400Ω, 4kΩ, 400kΩ, 4MΩ, 40MΩ

Part No.	Mfr. Part No.	Description	1	5
1939685	RC100	R/C Tweezer meter	\$59.95	\$54.95

\*Thermometers — Enter Web Code CEL

\*Cable Testers — Enter Web Code TBF



## Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Test frequencies of 120Hz and 1kHz
- Selectable parallel or series equivalent circuit
- **Res. ranges:** 20Ω to 10MΩ
- **Cap. ranges:** 2000pF to 10mF
- **Induc. ranges:** 2000µH to 10,000H
- Quality (Q) reading: 0 to 9999
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Dissipation Factor (D) reading: 0 to 0.9999
- Weight: 0.8 lbs.
- Measures L, C & R with secondary parameter Q, D or R; both are displayed

**Includes:** Test leads, alligator clips, 9V battery & holster

Part No.	Description	Size (W x D x H)	1	5
198678	LCR Meter	3.6" x 2.1" x 7.6"	\$199.95	\$189.95
189238	9VDC adapter for 198678	3.6" x 2.1" x 7.6"	5.95	5.35

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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DETAILS ON PAGE 190

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38073

P/N 1536843

\$16.95

DT830B

P/N 1928476

\$8.95

MN35

P/N 645618

\$19.95

381676

P/N 1537184

\$39.95

DM7

P/N 214261

\$24.95

M300

P/N 220812

\$10.95

DVM850BL

P/N 355207

\$17.95

BP-1562

P/N 318781

\$10.95

MAS830L

P/N 220759

\$14.95

M320

P/N 220804

\$19.95

MAS838

P/N 220741

\$19.95

BP-1415

P/N 318764

\$59.95

EX330

P/N 645626

\$53.95

EX430

P/N 1581177

\$89.95

EX505

P/N 2094127

\$109.95

115

P/N 1537328

\$159.95

\* Web Code: HBK

NEW  
MARKED IN PINK

Basic Measurement Functions															Test Functions				Special Functions				Pricing			
Part No.	Manufacturer Part No.	Type	No. of Functions	Display Count	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Frequency Ranges (Hz)	Temperature Range		Diode Test	Battery Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	1	5
													°C	°F												
1536843	Extech 38073	AMM	6	1	—	2.5V - 300V	10V - 300V	0.5A - 250mA	—	10KΩ - 1MΩ	—	—	—	—	✓	✓	✓	✓					3.5 x 6.1 x 1.9	1536843	\$16.95	\$15.95
1928476	Vastech DT830B	DMM	4	1999	—	200mV - 1000V	200V - 750V	200μA - 10A	—	200Ω - 2MΩ	—	—	—	—	✓								5.0 x 2.7 x 1.0	1928476	8.95	7.95
645618	Extech MN35	DMM	5	2000	100μV	200mV - 600V	200mV - 600mV	200mA - 10A	—	200Ω - 20MΩ	—	—	-20 to 750	-200 to 1400	✓		✓						5.4 x 25.8 x 1.5	645618	19.95	17.95
1537184	Extech 381676	DMM	5	2000	100μV	200mV - 600V	200m - 600V	—	—	200Ω - 20MΩ	—	—	—	—	✓		✓		✓				8.2 x 1.5 x 1.1	1537184	39.95	36.95
214261	Wavetek DM7	DMM	6	1999	1mV	2V - 600V	200V - 600V	200mA	—	2Ω - 2MΩ	—	—	—	—	✓	✓							5.5 x 3.1 x 1.5	214261	24.95	22.95
220812	Mastech M300	DMM	6	2000	1mV	2V - 500V	200V - 500V	200mA	—	2kΩ - 2MΩ	—	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812	10.95	9.95
355207	Velleman DVM850BL	DMM	6	2000	100μV	200mV - 100V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ	—	—	—	—	✓		✓	✓					5.4 x 2.7 x 1.2	355207	17.95	15.95
318781	BenchPro BP-1562	DMM	6	2000	100μV	200mV - 600V	200V - 750V	200μA - 10A	—	200Ω - 2MΩ	—	—	—	—	✓			✓					5.4 x 2.7 x 1.2	318781	10.95	9.95
220759	Mastech MAS830L	DMM	7	2000	100μV	200mV - 600V	200V - 600V	200μA - 10A	—	200Ω - 2MΩ	—	—	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220759	14.95	13.95
220804	Mastech M320	DMM	7	3999	1mV	4V - 600V	4V - 600V	.04A - .40A	.04A - .40A	400Ω - 40MΩ	—	—	—	—	✓		✓		✓				4.7 x 2.75 x 0.7	220804	19.95	17.95
220741	Mastech MAS838	DMM	8	2000	100μV	200mV - 600V	200V - 600V	2mA - 10A	—	200Ω - 2MΩ	—	—	-20 to 1000	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741	19.95	17.95
318764	BenchPro BP-1415	DMM	8	20,000	10μV	200mV - 1000V	2V - 700V	2mA - 20A	2mA - 20A	200Ω - 200MΩ	200pF - 20μF	20k	—	—	✓		✓	✓					7.4 x 3.6 x 1.2	318764	59.95	54.95
645626	Extech EX330*	DMM	9	4000	100μV	.1mV - 1000V	.1mV - 750V	.1μA - 10A	.1μA - 10A	.1Ω - 40MΩ	.001nF - 200μF	.001 - 10M	-50 to 1000	-58 to 1832	✓		✓		✓				5.7 x 2.9 x 1.6	645626	53.95	49.95
1581177	Extech EX430	DMM	9	4000	100μV	.1mV - 1000V	.1mV - 750V	.1μA - 20A	.1μA - 20A	.1Ω - 40MΩ	.1nF - 100μF	.001 - 10	-20 to 750	-4 to 1382	✓		✓				✓		7.4 x 3.2 x 2.0	1581177	89.95	79.95
2094127	Extech EX505	DMM	9	4000	10μV	400mV - 1000V	400mV - 1000V	400μA - 10A	400μA - 10A	400 - 40M	40nF - 100μF	5.999 - 9.99M	-20 to 750	-4 to 1382	✓		✓		✓			✓	7.2 x 3.2 x 2.2	2094127	109.95	105.95
1537328	Fluke 115†	DMM	9	6000	100μV	600mV - 600V	600mV - 600V	6A - 20A	6A - 20A	600Ω - 40MΩ	1000nF - 9999μF	99.99 - 50k	—	—	✓		✓		✓	✓		✓	10.9 x 6.3 x 2.2	1537328	159.95	149.95
1537336	Fluke 117*†	DMM	9	6000	100μV	600mV - 600V	600mV - 600V	6A - 20A	6A - 20A	600Ω - 40MΩ	1000nF - 9999μF	99.99 - 50k	—	—	✓		✓		✓	✓		✓	10.9 x 6.3 x 2.2	1537336	199.95	189.95
1939651	Extech EX530	DMM	9	40,000	100μV	400mV - 1000V	400mV - 1000V	400mA - 10A	400mA - 10A	400Ω - 40MΩ	40nF - 40μF	40 - 400	-45 to 750	-50 to 1382	✓		✓		✓			✓	7.4 x 3.2 x 2.0	1939651	209.95	199.95
692502	Extech DM110	DMM	10	4000	100μV	0 - 500V	0 - 500V	0A - .40	0A - .40A	400Ω - 40MΩ	0 - 200μF	9 - 10M	—	—	✓		✓						4.3 x 2.2 x 0.5	692502	34.95	30.95
1581214	Protek 6800	DMM	10	80,000	1μV	8V - 1000V	80mV - 750V	80mA - 10A	80mA - 10A	80Ω - 80MΩ	1nF - 100μF	1K - 8M	-50 to 1372	-58 to 2502	✓		✓		✓		✓	✓	7.5 x 3.5 x 1.5	1581214	199.95	189.95
220775	Mastech MY64	DMM	11	2000	100μV	200mV - 1000V	200mV - 700V	2mA - 10A	2mA - 10A	200Ω - 200MΩ	2nF - 20μF	2k - 20k	-20 to 1000	—	✓		✓	✓					7.4 x 3.6 x 1.3	220775	39.95	35.95
645571	Velleman DVM890F	DMM	11	2000	100μV	200mV - 1000V	2V - 700V	2mA - 20A	20mA - 20A	200Ω - 200MΩ	2000pF - 20μF	—	—	-58 to 1832	✓		✓	✓					6.7 x 3.5 x 1.5	645571	44.95	39.95
211650	Extech MN26T	DMM	11	4000	100μV	400mV - 600V	400mV - 600V	400μA - 10A	400μA - 10A	400Ω - 40MΩ	4nF - 200μF	10 - 10M	0 to 760	0 to 1400	✓		✓		✓				4.8 x 2.4 x 1.6	211650	39.95	37.95
117373	BenchPro BP-1949	DMM	11	4000	100μV	400mV - 400V	4V - 400V	400μA - 10A	400μA - 10A	400Ω - 4MΩ	50nF - 100μF	5 - 50k	-20 to 1000	-4 to 1532	✓		✓		✓		✓		7.7 x 3.6 x 1.6	117373	79.95	69.95
137462	BenchPro BP-1737	DMM	11	4000	100μV	400mV - 400V	4V - 400V	400μA - 10A	400μA - 10A	400Ω - 4MΩ	50nF - 100μF	5 - 50k	-20 to 1000	—	✓		✓		✓		✓	✓	7.7 x 3.6 x 1.6	137462	99.95	89.95
220767	Mastech MY68	DMM	12	3260	100μV	326mV - 1000V	3.26V - 700V	326μA - 10A	326μA - 10A	326Ω - 32.6MΩ	326nF - 32.6μF	32.6k - 150k	—	—	✓		✓	✓		✓		✓	7.4 x 3.6 x 1.3	220767	44.95	39.95
192655	Fluke 175	DMM	12	6000	100μV	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999μF	99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192655	249.95	239.95
185535	Fluke 179†	DMM	13	6000	100μV	600mV - 1000V	600mV - 1000V	60mA - 10A	60mA - 10A	600Ω - 50MΩ	1000nF - 9999μF	99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓			✓	7.3 x 3.5 x 1.7	185535	279.95	269.95
373991	Extech MA200	Clamp	7	2000	100μV	200mV - 600V	200mV - 600mV	—	2A - 400A	200Ω - 20MΩ	—	—	—	—	✓		✓		✓	✓		✓	7.9 x 2.0 x 1.4	373991	49.95	45.95
214404	Wavetek AC65	Clamp	8	3999	—	—	100mV - 600V	—	1A - 600A	4KΩ - 40KΩ	—	—	—	—	✓							✓	3.5 x 8.5 x 1.4	214404	159.95	139.95
1954682	BenchPro MS2108	Clamp	9	6599	100μV	660mV - 600V	660mV - 600V	66A - 600A	66A - 600A	660Ω - 66MΩ	6.6μF - 66mF	660 - >10K	—	—	✓		✓		✓			✓	8.2 x 3.1 x 1.4	1954682	99.95	89.95
2094119	Extech EX613	Clamp	9	40,000	10μV	0 - 600V	0 - 600V	400A	400A	.01Ω - 40M	10pF - 40,000μF	40MHz max.	-50 to 1000	-58 to 1832	✓				✓			✓	9.0 x 3.1 x 1.9	2094119	179.95	169.95
374070	Extech MA220	Clamp	10	4000	100μV	400mV - 600V	400mV - 600V	40A - 400A	40A - 400A	400Ω - 40MΩ	40nF - 100mF	5 - 150k	-50 to 1000	-58 to 1830	✓		✓					✓	7.9 x 2.0 x 1.4	374070	99.95	89.95
1585881	Extech EX830	Clamp	11	4000	100μV	0.1mV - 600V	0.1mV - 600V	100mA - 1000A	100mA - 1000A	.01Ω - 40MΩ	0.001nF - 40000μF	0.001 - 4k	-50 to 270	-58 to 518	✓		✓					✓	10.6 x 4.3 x 2.0	1585881	209.95	199.95

\* With non-contact voltage detector (100-600VAC range) † With backlight

117

P/N 1537336

\$199.95

EX530

P/N 1939651

\$209.95

DM110

P/N 692502

\$34.95

6800

P/N 1581214

\$199.95

MY64

P/N 220775

\$39.95

DVM890F

P/N 645571

\$44.95

MN26T

P/N 211650

\$39.95

BP-1949

P/N 117373

\$79.95

BP-1737

P/N 137462

\$99.95

MY68

P/N 220767

\$44.95

175

P/N 192655

\$249.95

179

P/N 185535

\$279.95

MA200

P/N 373991

\$49.95

AC65

P/N 214404

\$159.95

MS2108

P/N 1954682

\$99.95

EX613

P/N 2094119

\$179.95

MA220

P/N 374070

\$99.95

EX830

P/N 1585881

\$209.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

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148 Order by Phone 24/7 at 1-800-831-4242 or Online at [www.Jameco.com](http://www.Jameco.com)

149



## 50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8%  $\pm$  0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A



Part No.	Product No.	1	5	25
162309	ST-50	\$25.95	\$23.95	\$21.95

## ZapChecker (RF Field Strength Meter)

Detect and measure radio signals on HF, VHF, UHF or Microwave frequencies. Ideal for discovering wireless bugs and covert cameras. The ZAPCHECKER also works well to help install wireless security systems and wireless computer networks by checking where the strongest signal is. ZC-300 (667817) also includes a long periodic antenna for an extra boost and a BNC connector if you choose to use other antennas.



- Sensitivity control: 20dB, (10:1) signal control range
- Detection modes: LINEAR – for far-field detection of weakest signals: 12dB • Sensitivity: 45 $\mu$ V
- Dynamic range: LOG – for near-field localization without overloading: 60dB
- Dynamic range MID – for intermediate detection and localization: 25dB dynamic range
- Silent vibrator or analog meter communicate results
- LED display indicators
- Size: 2.1"W x 1.3"D x 5.0"H

Part No.	Mfr. Part No.	Frequency	1	5
667817	ZC-300	1MHz-8GHz	\$439.95	\$399.95

## LASCAR electronics USB Data Loggers

- Measures and stores up to 32,000 readings
- User programmable alarm thresholds
- Data can be graphed, printed, and exported to other applications
- Windows® 98/2000/XP/Vista compatible software included

\* Web Code: LOG



### 2076367: Temp., humidity & dew point data logger

- 2 $\frac{1}{2}$ -digit LCD display
- Data logger set-ups: logger name, °F/°C, logging rate (10s to 12 hrs), high & low alarms, start date/start time or pushbutton to start
- Temperature range: -31°F to 176°F (-35°C to 80°C)
- Relative humidity range: 0 to 100% RH
- Dew point indication via Windows® control software

### 2075989: Temperature data logger

- Data logger set-ups: logger name, °F/°C, logging rate (10s to 12 hrs), high & low alarms, start date and start time
- Temperature range: -31°F to 176°F (-35°C to 80°C)

### 2076009: Real time, temp. & humidity data logger

- Data logger set-ups: °F/°C, high and low audible alarms with mute option, text message or email alert settings, and shows readings in toolbar
- Temperature range: -4°F to 158°F (-20°C to 70°C)
- Relative humidity range: 0 to 100% RH

Part No.	Mfr. Part No.	1	5
2076367	EL-USB-2-LCD	\$99.95	\$89.95
2075989	EL-USB-1	59.95	54.95
2076009	EL-USB-RT	74.95	69.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Humidity/Temperature Data Logger

- Simultaneous numerical and graphical LCD display of humidity and temperature readings, plus time and date
- Measures humidity (10 to 95% RH), temperature (-20°F to 140°F) plus included LabView™ based software that calculates and graphs dew point, wet bulb and GPP (grains per pound)
- Internal memory records up to 49,000 data points & can be transferred to a PC via RS-232 serial port



\* Web Code: LOG

**Includes:** Built-in stand, detachable probe with 1m (3ft.) cable, RS-232 cable, USB adapter, LabView based software, AC adapter, and 3 AA batteries

Part No.	Mfr. Part No.	1	5
2075866	RH520A	\$249.95	\$224.95



## Home Inspector Kit

Designed to aid in identification of moisture, HVAC, electrical & hot water system issues.

### MO280 Pinless Moisture Meter

- Displays % moisture from 0 to 9%
- Measurement depth to 0.75" (22mm) below the surface

### ET10 GFCI Receptacle Tester

- Tests for faulty wiring in 3-wire receptacles & GFCI circuits
- Detects 5 wiring faults
- Lights indicate circuit condition

### 42500 Mini IR Thermometer w/ Laser Pointer

- Measures from -4°F to 500°F (-20°C to 260°C)

### 39240 Waterproof Stem Thermometer

- Ideal for testing hot water heaters
- Measures from -40°F to 392°F (-40°C to 200°C)
- 2.75" (70mm) stainless steel stem

Save \$40

Part No.	Mfr. Part No.	1	5
1939669	MO280-KH	\$199.95	\$169.95

## Industrial Troubleshooting Kit

Provides all the electrical testing needs for installation and repair. This kit includes: EX430 True RMS Multimeter with 11 functions, 42510 Mini IR thermometer and MA200 400A AC clamp meter.

Save \$40

**Includes:** Test leads, K-type thermocouple bead probe, Type K to banana input adapter, multimeter hanging straps & batteries. • Size: 9.5"W x 2.8"D x 6.8"H

Part No.	Mfr. Part No.	1	5
1939749	TK-430-IR	\$199.95	\$179.95



## 3-in-1 Multimeter and Cable/Line Tester

- 2000 count LCD display (15mm display size) w/ automatic polarity indication and white backlight
- Continuity and diode test
- DC voltage ranges: 0.2 to 1000V
- AC voltage ranges: 0.2 to 700V
- DC current ranges: 200 $\mu$ A to 10A
- AC current ranges: 200 $\mu$ A to 10A
- Size: 3.3"W x 1.1"D x 7.3"H • Weight: 1.4 lbs.



**Includes:** 9V battery, test leads, remote box for cable testing, and users manual

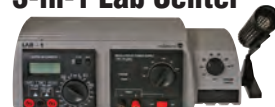
Part No.	Mfr. Part No.	1	5
1955984	DVM1000	\$69.95	\$64.95



## 3-in-1 Lab Center

### Digital Multimeter:

- 3-1/2 backlit LCD
- Automatic polarity indication



- DC voltage ranges: 200mV to 600V
- AC voltage ranges: 200V to 600V
- DC current ranges: 200 $\mu$ A to 10A
- Resistance ranges: 200 $\Omega$  to 2M $\Omega$
- Diode, transistor and continuity tester

### Regulated Power Supply:

- Selectable output volts: 3 to 4.5; 6 to 7.5; 9 to 12VDC
- Output current: 1.5A (2A peak) • On/off switch

### Soldering Station:

- 48W ceramic heating element with temp. sensor
- 24V soldering iron • Temp. range: 150° to 450°C

**Includes:** Test leads, user manual, sponge, spare bit for soldering iron and 9V battery for DMM

Part No.	Mfr. Part No.	1	5
695025	LAB1U	\$159.95	\$139.95

## Kill A Watt™ Energy Consumption Meters

Measures how much energy appliances consume. Simply connect appliances to the Kill A Watt™, and it will assess how efficient they really are. Counts consumption by the Kilowatt-hour, same as your local utility. You can calculate your electrical expenses by the day, week, month, even an entire year. Also check the quality of your power by monitoring voltage, line frequency and power factor.

- Forecast your costs • Max. power: 1875VA
- Displays volts, amps, watts and Hz • 0.2% accuracy
- Max. current: 15A • Large LCD display
- Operating voltage: 115VAC

2075954: Displays usage in dollars

Part No.	Mfr. Part No.	Measures	1	5
2075946	P4400	8	\$22.49	\$19.95
2075954	P4460EZ	10	36.95	33.95

\* Digital Multimeters — Enter Web Code HBK

## 2000-Count Multimeters

- Resolution: 100 $\mu$ V max.
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.



### 203801: 3 1/2-Digit - 2A

- DC/AC current ranges: 200 $\mu$ A – 2A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200 $\Omega$  – 20M $\Omega$
- Conductance ranges: 2 $\mu$ S – 200nS

### 160830: 3 1/2-Digit - 10A

- DC/AC current ranges: 200 $\mu$ A – 10A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200 $\Omega$  – 20M $\Omega$
- Conductance ranges: 2 $\mu$ S – 200nS

### 421542: 3 1/2-Digit - 2A

- DC/AC current ranges: 200 $\mu$ A – 2A
- AC voltage ranges: 200mV – 750V
- Resistance ranges: 200 $\Omega$  – 20M $\Omega$
- Conductance ranges: 2mS – 200nS
- Frequency ranges: 20Hz – 50kHz

✦ Refurbished = Backed by Jameco

Part No.	Mfr. Part No.	1	5
160830	8010A	\$199.95	\$189.95
203801	8012A	199.95	189.95
421542	8050A	219.95	209.95

FLUKE.

Limited Supply - Great Price!



## 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3 1/4-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- **DC voltage ranges:** 400mV – 1000V (0.3% accuracy)
- **AC voltage ranges:** 4V – 750V
- **Resistance ranges:** 400Ω – 40MΩ
- **Frequency ranges:** 100Hz – 600kHz
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz • Weight: 3.3 lbs.
- Size: 9.0"W x 9.4"D x 3.3"H
- Resolution: 100μV maximum
- **DC/AC current ranges:** 4mA – 10A
- **Capacitance ranges:** 4nF – 40μF
- Diode and continuity test
- Delay hold mode
- Two-year warranty



**Includes:** Manual, test leads, power adapter, 9V battery, RS-232 cable & software (98/ME/2000/XP compatible)

Part No.	Mfr. Part No.	Description	1	5
230586	B940	Benchtop multimeter	\$179.95	\$169.95

## Handheld 5MHz Digital Oscilloscope with True-RMS Multimeter

- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input volt.: 600VDC or AC<sub>RMS</sub> max.
- Input impedance: 1MΩ
- Sampling time: 25MS/s dual ch.; 50MS/s single ch.
- RS-232 PC interface and software for transferring waveforms and data
- Resolution: 100μV max.
- **DC voltage ranges:** 0.001V to 1000V
- **AC (TRMS) voltage ranges:** 0.001V to 750V
- **Resistance ranges:** 1Ω to 5MΩ
- **Frequency ranges:** 0.01Hz to 10MHz
- **RPM ranges:** 240 to 60,000 RPMs
- Size: 3.5"W x 1.8"D x 7.7"H



**Includes:** Test leads, alligator clips, Ni-MH battery pack, AC adapter/charger, RS-232 cable, holster & carrying case

Part No.	Mfr. Part No.	1	5
645651	381295	\$495.95	\$429.95

## 20MHz Handheld Oscilloscope with Digital Multimeter

- Sensitivity: 5mV/div (in 1,2,5 sequence)
- 8-bit resolution
- Input impedance: 1MΩ ±1%; 20pF ±1.3pF
- Probe attenuation: x1 and x10
- Coupling: AC/DC, HF-reject, LF-reject, noise reject
- **DC voltage range:** 600mV to 1000V
- **AC voltage range:** 6V to 600V
- **Resistance range:** 600Ω to 60MΩ
- **Capacitance range:** 60nF to 300μF
- Diode, continuity, high current and temperature test
- **Power Requirements:** 9VDC @ 1A power supply or 7.2V NiMH battery pack



**Includes:** Power adapter, manual, scope probe, test leads, holster, USB cable and software

Part No.	Mfr. Part No.	Size (HxWxD)	1	5
1918999	Protek 820	8.3" x 4.2" x 2.2"	\$849.95	\$749.95

## 20MHz 2-Channel Analog Oscilloscope

- 6" rectangular screen with internal graticule and scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 gain selected
- Horizontal deflection: 0.1μs/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input voltage: 115/230VAC w/ line voltage selector
- ADD function measures sum of two signals
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.



**Includes:** Two (X1/X10) test probes, power cord & manual

Part No.	Mfr. Part No.	1	5
685311	SK0200	\$429.95	\$399.95

## 20MHz Dual Trace Oscilloscope with Alt-Mag

- 3.15" x 3.94" CRT with internal graticule & scale
- Vertical amplifier: 5mV/DIV to 5V/DIV in 10 steps (1-2-5 sequence)
- Horizontal sweep: 200ns/Div to 0.5s/Div in 20 steps (1-2-5 sequence)
- External trigger input: impedance – 1MΩ ±5% + 20pF capacitance; maximum input voltage – 160V (DC or AC peak)
- Z axis modulation: 5Vp-p sensitivity; maximum input voltage – 50V or ACp-p
- Input voltage: 120VAC or 220VAC @ 50/60Hz
- Size: 12.5"W x 15.75"D x 5.1"H • Weight: 16 lbs.



Part No.	Mfr. Part No.	1	5
1536801	PROTEK 6020R	\$368.95	\$349.95

## Test Leads & Clips

See pages 154-155 for our selection



## 100MHz Analog Oscilloscope

- 2-channel dual trace
- Auto focusing according to intensity
- Delay line
- Weight: 22.8 lbs.
- Two-year warranty
- Size: 16.9"L x 12.6"W x 5.5"H



**Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Mfr. Part No.	1	5
121179	OS5100	\$999.95	\$965.95

## 150MHz 2-Channel Digital Oscilloscope

Color and Monochrome with RS-232/USB/Parallel Interfaces

- Bandwidth (-3dB): 150MHz
- 15 memory settings
- Real-time sample rate: 100MS/s max on each channel; equivalent: 25GS/s
- 2 channels with 8-bit vertical resolution
- Record length 125k/CH
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div – 5V/div
- Input voltage: 100-240VAC @ 50-60Hz
- Time base range: 1ns/div – 10s/div
- Color with RS-232/USB/parallel interface
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- Frequency counter: 6 digits ±50ppm; AC coupled, 10Hz – 150MHz
- Size: 12.2"W x 10.0"D x 5.6"H
- Weight: 9.3 lbs. • Two-year warranty



**Includes:** BNC cable, power cord & operations manual

Part No.	Mfr. Part No.	1	5
229366	GDS-820C	\$1,299.95	\$1,199.95

## 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel port interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V AC/DC
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576, pg 120)



**\* Web Code: RCG**

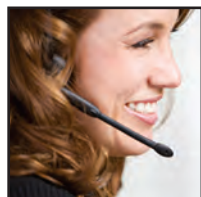
### Oscilloscope:

- Time base: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel
- **Spectrum Analyzer:** • Frequency range: 0 to 25MHz
- **Transient Recorder:** • Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

**System Requirements:** IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Part No.	Mfr. Part No.	1	5
200184	PCS500AU	\$349.95	\$329.95

**\* Oscilloscopes Available Online — Enter Web Code RCG**



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\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## 50MHz 2-Channel USB PC Oscilloscope

The PCSU1000 digital storage oscilloscope uses the power of your PC to visualize electrical signals. It has a highly sensitive display resolution, down to 0.15mV, combined with a high bandwidth and a sampling frequency of up to 1GHz.

### Oscilloscope:

- Input range: 5mV to 2V/division
- Time base: 20ns to 100ms per division
- Trigger source: CH1, CH2, EXT or free run
- Real time sampling frequency: 1.25kHz to 50MHz

### Spectrum Analyzer:

- Frequency range: 1.2kHz to 25MHz
- FFT resolution: 2048 lines
- FFT input channel: CH1 or CH2

### Transient Recorder:

- Timescale: 20ms/Div to 2000s/Div
- Max record time: 9.4 hour/screen
- Min./Max. number of samples: 20/s; 100/s

### System Requirements:

IBM compatible PC, Windows® 98SE or later, SVGA display card, USB port

**Includes:** PC oscilloscope, 2 x 60MHz scope probes, USB cable and CD-ROM

Part No.	Mfr. Part No.	1	5
695017	PCSU1000	\$499.95	\$459.95



\*Web Code: RCG

## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs.
- Two-year warranty



Part No.	Mfr. Part No.	1	5
160469	BK4011A	\$369.95	\$349.95

## 2MHz & 3MHz Function Generators w/ Frequency Counter

### Function Generator

- Waveforms: sine, triangle, square, TTL and CMOS output
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load



### Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs.
- Two-year warranty
- 229251:** • 4-digit LCD display
- Ranges: 0.2Hz to 2MHz • Size: 9.1"W x 11.0"D x 3.7"H
- 229260:** • 6-digit LCD display with ramp
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz • Size: 9.9"W x 11.5"D x 3.6"H

**Includes:** Power cord, operations manual and leads

Part No.	Mfr. Part No.	Description	1	5
229251	GFG-8020H	2MHz	\$249.95	\$229.95
229260	GFG-8216A	3MHz	299.95	269.95



## 2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range and gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100msec to 10sec
- Channel A: DC coupled - 0.01Hz to 100Hz; AC coupled - 100Hz to 50MHz, sensitivity - 80mVrms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity - 50mVrms, 50Ω impedance
- Power supply: 120 to 220VAC
- Size: 10.6"W x 8.5"D x 3.9"H • Weight: 3.5 lbs.



Part No.	Mfr. Part No.	1	5
1955968	DVM13MFC2U	\$159.95	\$149.95

## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges • Size: 10.5"W x 11.2"D x 3.9"H
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch • Weight: 6.6 lbs.



Part No.	Mfr. Part No.	1	5
685329	SK3000	\$209.95	\$189.95

\*Function Generators — Enter Web Code DEJ

\*Frequency Counters — Enter Web Code VCG

## 60/100/250MHz Modular Oscilloscope Probes



22892

216047

236777

\*Web Code: RAC

- Hook and pointed probes
- Maximum input volt.: 600V
- Alligator clip ground wire
- Length: 5'
- BNC male connector
- **216047/236777:** With IC test ground cover and spring ground contact

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation		Attenuation	
	x1	x10	x1	x10
22892	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

\* with 20pF oscilloscope input

Part No.	Product No.	1	5	25
22892	LF101E	\$24.95	\$22.49	\$19.95
216047	HF-9100	29.95	26.95	23.95
236777	HP-9250	39.95	35.95	31.95



## 150/250MHz Oscilloscope Probes

Designed for use with Tektronix or Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'



**174473:** 7-piece kit  
**212257:** 25-piece kit



Part No.	Mfr. Part No.	1	5
174473	4901-02 (150MHz)	\$59.95	\$53.95
212257	4915A (250MHz)	159.95	144.95

## Pomona 100MHz Probe Set

- Complete accessory kit included
- Compensation range: 10-60pF
- 48" cable
- Bandwidth: 15/100MHz (-3dB)
- Attenuation: x1/x10
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF



Part No.	Mfr. Part No.	1	5
156451	4550B (100MHz)	\$59.95	\$53.95

\* More Probes Available Online — Enter Web Code RAC



## 1000 Volt Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks



Part No.	Description	1	5
212249	High voltage test probe	\$79.95	\$72.95

**Need special orders or pricing?**  
**Call us at 1-800-831-4242**





## High Voltage Test Probe

- Maximum voltages: DC:40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC:±1.5%, AC:±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Probe length: 14" • Cable length: 39"



Part No.	Description	Weight (lbs.)	1	5	25
132290	High voltage test probe	0.8	\$79.95	\$73.95	\$69.95

## 17MHz Logic Probe

- Max input freq.: 17MHz
- Pulse flash time: 500ms
- Input impedance: 1MΩ
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Minimum pulse width: 30ns
- Audible tones for high & low
- Power supply protection: ±20V



Part No.	Description	Size	1	5	25
149930	Logic probe	7.7"L x 1.0"W x 0.6"H	\$39.95	\$35.95	\$32.95

## 17MHz Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- Pulse repetition rate: 0.5pps/400pps
- 1MΩ sync input impedance
- Pulse width output at 100mA load: 10μs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- "One shot" or continuous 5Hz pulse train



\* Web Code: MAQ

Part No.	Description	1	5	25
24601	Logic pulser	\$29.95	\$26.95	\$23.95

## PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. Tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.



- Auto power off, auto and manual scan

Paladin Tools®

Includes: 9V battery

Part No.	Mfr. Part No.	Description	1	5	25
652480	1577	LED indicators	\$185.95	\$169.95	\$159.95

## Single & Multiple Output Benchtop Power Supplies

\* Web Code: SAX



301920



175257



645600



301971



1939626



207618



207706



175249

### Single Output Benchtop Power Supplies • Voltage and current adjustable

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Displays (Digits)	Input Voltage (VAC)	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
301920	Mastech	HY1503C	15/3	45	2-Analog	115/230 ±10%	Y	N	3.8 x 6.3 x 9.1	9	\$99.95	\$89.95
175265	Various	DPS150A	15/10	150	2-Analog	110 @ 60Hz	Y	Y	6.2 x 4.0 x 5.7	12	149.95	129.95
175257	Various	SPS250A	15/15	225	2-Analog	110/220 @ 47-63Hz	Y	Y	6.2 x 4.0 x 5.6	3.8	149.95	129.95
681221	Extech	382202	18/3	54	2-Digital LCD (4)	120 @ 60 Hz	Y	Y	9.4 x 6.1 x 4.3	6.6	139.95	129.95
645600	Extech	382200	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	Y	Y	9.4 x 6.1 x 4.3	4.4	129.95	119.95
301971	Lascar	PSU130	30/1	30	2-Digital LCD (4)	100/240 @ 47-63Hz	Y	Y	5.5 x 1.6 x 5.2	1.2	89.95	84.95
301866	Mastech	HY3003D	30/3	90	2-Digital LCD (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	10	159.95	135.95
207618	Mastech	HY3005C	30/5	150	2-Analog	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	14	159.95	135.95
301911	Mastech	HY3005D	30/5	150	2-Digital LCD (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
207626	Mastech	HY3010C	30/10	300	2-Analog	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	31	299.95	269.95
207635	Mastech	HY3010A	30/10	300	2-Digital LED (4)	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	31	319.95	289.95
207686	Mastech	HY3020A	30/20	600	2-Digital LED (4)	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	42	499.95	449.95
1939626	Extech	382290	30/30	900	2-Digital LED (4)	110-240 @ 50-60Hz	Y	Y	9.8 x 3.8 x 13.4	13.2	749.95	699.95
207694	Mastech	HY5002A	50/2	100	2-Digital LED (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	13	179.95	159.95
163723	Various	DPS-3050	50/3	150	2-Analog	110 @ 60Hz	Y	Y	4.8 x 7.5 x 9.0	12.3	129.95	115.95
207706	Mastech	HY5003	50/3	150	2-Digital LED (4)	115/230 ±10%	Y	N	5.4 x 6.2 x 11.5	13	199.95	179.95
207600	Mastech	HY5005	50/5	250	2-Digital LED (4)	115/230 ±10%	Y	N	10.4 x 6.5 x 14.4	17	279.95	249.95
175249	Various	DPS5050	50/5	250	2-Analog	110 @ 50-60Hz	Y	Y	7.7 x 6.7 x 4.9	13.8	179.95	159.95



211693



301962



301947



197991



197982



1939618

### Multiple Output Benchtop Power Supplies • Voltage and current adjustable

Part No.	Mfr.	Mfr. Part No.	Voltage (VDC)/ Current (A)	Power (W)	Input Voltage	Displays	Short Circuit Protection	Overload Protection	Size (W" x H" x D")	Weight (lbs.)	Pricing	
											1	5
211722	Mastech	HY3002-2A	0-30/2; 0-30/2	120	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	23	\$219.95	\$199.95
211705	Mastech	HY3002D-2	0-30/2; 0-30/2	120	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	23	239.95	219.95
211693	Mastech	HY3003D-2A	0-30/3; 0-30/3	180	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	28	299.95	269.95
211731	Mastech	HY3003-2A	0-30/3; 0-30/3	180	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	28	299.95	269.95
301962	Mastech	HY5003-2	0-50/3; 0-50/3	300	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	26	299.95	269.95
301947	Mastech	HY3005D-2A	0-30/5; 0-30/5	300	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	26.5	299.95	269.95
211713	Mastech	HY3003-3	0-30/3; 0-30/3; 5/3	300	115/230 ±10%	2-Digital LED	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
211684	Mastech	HY3003D-3	0-30/3; 0-30/3; 5/3	195	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	29	299.95	269.95
301955	Mastech	HY3005D-3A	0-30/5; 0-30/5; 5/3	315	115/230 ±10%	4-Digital LCD	Y	N	10.4 x 6.5 x 14.4	29	379.95	339.95
301938	Mastech	HY3005	0-30/5; 0-30/5; 5/3	315	115/230 ±10%	2-Digital LED	Y	N	10.5 x 6.5 x 14.3	10	199.95	179.95
197991	Extech	382213	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60 Hz	2-Digital LCD (3)	Y	Y	6 x 5.6 x 9.5	11	199.95	179.95
197982	Extech	382203	0-30/3; 5/0.5; 12/0.5	98.5	110/120 @ 50-60 Hz	2-Analog	Y	Y	6 x 5.6 x 9.5	11	169.95	159.95
1939618	Extech	382270	0-30/5; 0-30/5; 3-6/3; 8-15/1	334.5	110/120 @ 50-60 Hz*	4-Digital LED (4)	Y	Y	10.2 x 6.3 x 14.5	26.5	449.95	429.95

\* Selectable

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## 13.8VDC Precision Regulated Power Supplies

- Heavy duty 5'8" 3-prong power cord
- Short-circuit protected
- Output mating terminals: see pg 126 for cigarette plugs & pg 155 for banana terminal plugs
- Illuminated rocker switch
- Fuse protected

\*Web Code: YEH

1918745  
Cigarette plug



136581  
Banana terminal



138668  
Banana terminal (rear)



Part No.	Manufacturer	Mfr. Part No.	Power (W)	Output Volts@Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	5	25
1918745	Samlex	SPS-1204UL	46.2	13.8VDC @ 3.5A	120VAC @ 60Hz	Cigarette plug / terminals	5.2 x 4.0 x 2.0	2.0	\$39.95	\$35.95	\$32.95
136581	Samlex	RPS1207#	96.6	13.8VDC @ 7.0A	115VAC @ 60Hz	Banana terminals	8.7 x 5.7 x 3.6	8.5	69.95	59.95	54.95
138668	Various	38-381R	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	59.95	53.95	48.95
138676	Various	52-192012R	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	94.95	84.95

\* P/N 136581 includes overheating protection

## DigiView 100MHz Logic Analyzer USB Interface

Professional quality 18-channel, 100MHz logic analyzer with high portability.

- 18-channels, 100MHz
- USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- Trigger on rising, falling, or transition of any channel
- Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution



Part No.	Description	1	5
256866	USB logic analyzer	\$499.95	\$469.95

## 80-Watt Switching Mode DC Power Supply

### 3-in-1 DC Power Supply

- Input voltage: 90-264VAC @ 47-63Hz
- Constant voltage and current
- Basic accuracy:  $\pm 1\%$
- Ripple and noise:  $< 30\text{mVp-p}$
- Line regulation:  $< 4\text{mV}$
- Load regulation:  $< 20\text{mV}$
- Dual 4-digit LED display
- 3 ranges: 0 - 16.4V @ 0-5.1A; 0 - 27.6V @ 0 - 3.1A; 0 - 36.8V @ 0 - 2.3A
- Remote sensing for accurate applied voltage at load point
- Size: 13"H x 5"W x 2.1"D



Part No.	Mfr. Part No.	1	5
1939600	382260	\$279.95	\$239.95

\*Benchtop Power Supplies — Enter Web Code SAX

For our Selection of AT & ATX Power Supplies on page 175



## 108-Watt Desktop Power Supply

- Load reg.:  $\pm 2\%$
- Input voltage: 88 132VAC/ 176-264VAC @ 47-63Hz (switch selectable)
- Line regulation:  $\pm 5\%$
- Efficiency (typical): 81%
- Ripple and noise max.: 120mVp-p
- Vol. adjustment range: 2VDC to 15VDC
- Front panel on/off switch and 3 color LED loading indicator
  - Size: 5.9"W x 5.5"D x 3.3"H
- Short-circuit/overload/ overvoltage/overtemperature protection
  - Weight: 3.3 lbs.
- Back panel 3-prong AC receptacle and banana plugs



Part No.	Mfr. Part No.	1	5
673230	ESP-120-13.5R	\$59.95	\$53.95

## ATX Power Supply Tester

- LED indicators for ATX power supply outputs to indicate pass or fail
- Tests +3.3V, +5V, +12V, +5VSB, -5V, -12V and PG outputs
- 20-pin ATX connector on one side of the tester
- 4-pin HDD connector, floppy drive connector, and P4 connector on the other side of the tester



Part No.	Description	1	5
1928450	ATX power tester	\$19.95	\$17.95

## Test Leads and Cables

\*Web Code TLC



Part No.	Manufacturer	Product No.	Description	Size (L")	1	10	25
159871	Pomona	2249-C-36R	RG58 C/U, 50 $\Omega$ BNC cable	36	\$14.95	\$14.49	\$13.95
159880	Pomona	2249-C-60R	RG58 C/U, 50 $\Omega$ BNC cable	60	18.95	17.95	16.95
176971	Pomona	4532-C-36R	BNC (RG58 C/U) to miniature test clips w/strain relief	36	18.95	17.95	16.95
11384	BenchPro	GCA26-RR	BNC (RG58/U) to Alligator clip test cable	23	4.65	3.95	2.95
176954	Pomona	5187-K-36R	BNC (RG174/U) to MiniGrabber™ test leads	36	24.95	23.95	22.95
11464	BenchPro	05-A-078-RR	BNC (RG174) to Mini-clip test cable	39	3.95	3.59	3.29
11422	BenchPro	05-A-081-RR	BNC (RG174) to Micro-clip test cable	39	3.75	3.19	2.59
256832	BenchPro	CBB-069R	Female BNC to pigtail	7	5.45	4.95	4.45
212222	Probe Master	8043S	Softie test probe leads (w/ 10 pcs interchangeable tips)	39	26.95	25.95	24.95
174625	Pomona	8150	Micro-tip test probe leads (w/ 10 plunger type tips)	39	36.95	33.95	31.95
1945962	Various	TP-1	Protected probes w/ rt. angle banana screw-on alligator clips (2)	40	7.95	6.95	6.25
168516	BenchPro	GA-5010	Universal test lead kit w/ interchangeable tips	36	8.95	6.95	5.95
77738	BenchPro	GF19-RR	Protected banana style multimeter test leads	40	5.95	5.49	4.95
155951	Pomona	5519AR	Banana plug to probe, insulated leads	48	13.95	12.95	11.95
77746	BenchPro	FC-15B-RR	Standard banana style multimeter test probes	42	7.59	6.95	6.25
159901	Pomona	B-24-02R	Stackable banana patch cord	24	9.95	8.95	8.29
571188	Pomona	3782-60-0	MiniGrabber™ test clip to stacking Banana plug	60	5.95	5.49	4.95
156495	Pomona	5523-RR	MiniGrabber™ test clip patch cord, 10-pc. assorted colors	24	39.95	37.95	36.95
159919	Pomona	B-36-02R	Stackable banana patch cord	36	10.95	9.95	8.95
77842	BenchPro	KLN-4-25/H-RR	Stackable banana to banana test leads, 10 pcs, 5 colors	9.8	23.95	20.95	19.95
107423	BenchPro	GCA340-RR	Double banana plug to alligator clip test leads	36	3.95	3.59	3.19



Test Leads & Cables continued on next page

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## Test Leads and Cables (Continued)

Part No.	Manufacturer	Product No.	Description	Size (L")	1	10	25
159899	Pomona	3782-36-02-ROHS	Mini-clip w/ stackable banana test leads	36	\$10.95	\$9.95	\$9.49
21857	BenchPro	05-A-082-R	Mini-clip to stackable banana test leads, black	39	3.95	3.49	2.95
21865	BenchPro	05-A-079-R	Mini-clip to stackable banana test leads, red	39	3.95	3.49	2.95
135299	BenchPro	SF-207A-R	Mini-clip test leads, 5 colors	14	10.95	9.95	8.95
10444	BenchPro	GAL01	Alligator clip test leads, 10-pc. assorted colors	15	4.49	3.95	3.49
155985	Pomona	2708B	9 slot test lead holder (blue)	11	11.95	10.95	10.49
155977	Pomona	4408	10 slot test lead holder (black)	11	9.95	9.49	8.95
155969	Pomona	1508	14 slot test lead holder (orange)	11	11.49	10.95	10.49

★ Web Code TLC



159899



135299



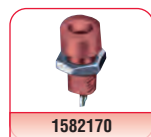
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155985

## Test Clips, Plugs and Posts

★ Web Code TLC



1582170



256779



71240



77691



11440



125225



125233



159863



159927

\* Order in multiples of 10

Part No.	Manufacturer	Product No.	Description	Size (ins.)	1	10	100
1582170	Keystone	6091	Chassis mount banana jack, red, 0.182" solder tab	.937 L x .433 Dia.	\$1.29	\$1.15	\$1.09
1582188	Keystone	6092	Chassis mount banana jack, black, 0.182" solder tab	.937 L x .433 Dia.	1.29	1.15	1.09
256779	BenchPro	R1-17-BLK-R	Panel mount tip jack; 1/4"-32 thread, black (10 pc. pkg)	.988 L x .29 Dia.	7.95	6.95	5.95
263864	BenchPro	R1-17-RED-R	Panel mount tip jack; 1/4"-32 thread, red (10 pc. pkg)	.988 L x .29 Dia.	7.95	6.95	5.95
71240	BenchPro	GIP-003-R	1" screw type binding post, chassis mount	1.0 L x .50 Dia.	1.09	.99	.89
77691	BenchPro	GIP-001-R	1 3/4" screw type binding post, chassis mount	1.8 L x .50 Dia.	1.59	1.45	1.29
11440	BenchPro	03-701A-R	BNC female to standard double banana plug	2.03 L x 1.7 W	4.95	4.49	3.95
125225	BenchPro	GB2BR2	BNC male to standard double banana plug	2.21 L x 1.8 W	5.95	5.39	4.95
125233	BenchPro	GB1BN2	BNC female to double binding/banana posts	2.14 L x 1.8 W	4.95	4.45	3.95
99355	BenchPro	GB2BN2	BNC male to double binding/banana posts	2.35 L x 1.7 W	4.95	4.45	3.95
159863	Pomona	1825-02	Solderless banana plug w/ safety collar (set of 2)	4.59 L x .39 Dia.	3.19	2.95	2.75
571161	Pomona	1825-2	Solderless banana plug w/ safety collar, red (set of 10)	1.55 L x .17 Dia.	15.95	14.95	13.95
571153	Pomona	1825-0	Solderless banana plug w/ safety collar, black (set of 10)	1.55 L x .17 Dia.	15.95	14.95	13.95
159855	Pomona	1325-02	Solderless banana plug w/ set screw (set of 2)	1.55 L x .44 Dia.	3.19	2.95	2.75
571145	Pomona	1325-2	Solderless banana plug w/ set screw, red (set of 10)	1.55 L x .17 Dia.	15.95	14.95	13.95
571137	Pomona	1325-0	Solderless banana plug w/ set screw, black (set of 10)	1.55 L x .17 Dia.	15.95	14.95	13.95
159927	Pomona	MDP-02	Double banana plug w/ wire guide (set of 2)	1.55 L x 1.18 W	5.49	5.29	4.95
125197	BenchPro	GBRR2-R	Screw mount double binding/banana post	1.6 L x 1.4 W	3.95	3.49	2.95
684502	Pomona	6311	SMD micro grabber test clip, 8mm tip (set of 2)	1.5 L x .02 W	89.95	84.95	79.95
684545	Pomona	6313	SMD micro grabber test clip, 2mm tip (set of 2)	1.5 L x .02 W	89.95	84.95	79.95
125210	BenchPro	GBRR4-BLK-R	Stackable double banana plugs, black	1.59 L x 1.20 W	2.95	2.49	1.95
125218	BenchPro	GBRR4-RED-R	Stackable double banana plugs, red	1.59 L x 1.20 W	2.95	2.49	1.95
571268	Pomona	MDP-2	Stackable double banana plugs, red	1.55 L x 1.13 W	2.65	2.49	2.29
114810	BenchPro	G2P004-R	Mini test clip (set of 2)	1.75 L	1.59	1.45	1.29
114818	BenchPro	G2P002-R	Mini test clip (set of 2)	3.5 L	1.95	1.65	1.35
153163	BenchPro	SF-207-BL-R	Micro test clip, blue	1.6 L	.95	.85	.75
72195	BenchPro	GBP205-R	1 9/16" set screw banana plug (set of 2)	1.6 L x .40 Dia.	1.59	1.45	1.25
137526	BenchPro	HP-2234P-R	2 1/4" set screw banana plug (set of 2)	2.3 L x .30 Dia.	2.99	2.49	1.99
70991	BenchPro	GIP006-R	Insulated alligator clips (set of 2)	2.3 L x .50 W	.55	.49	.39
248921	BenchPro	SF101CP-R	Mini alligator clip, solder/crimp	1.2 L x .30 W	.39	.36	.33
256525	BenchPro	SF105B-R	Alligator clip, barrel/screw	1.9 L x .20 Dia.	.55	.49	.45
248939	BenchPro	SF-103CP-R	Alligator clip, screw terminal	1.6 L x 0.3 Dia.	.35	.29	.25
248962	BenchPro	SF-103SV-BK	Black insulator sleeve for PNs 248939 & 256525	1.9 L x .20 Dia.	.55	.49	.45
248972	Various	SF103SV-RD-R	Red insulator sleeve for PNs 248939 & 256525	1.9 L x .20 Dia.	.35	.29	.25
1581986	Keystone	5001	Looped color coded test point, black mini	.3 L x .04 Dia.	.29	.25	.19
1581994	Keystone	5002	Looped color coded test point, white mini	.3 L x .04 Dia.	*	.19	.15
1582006	Keystone	5004	Looped color coded test point, yellow mini	.3 L x .04 Dia.	*	.19	.15
1582065	Keystone	5012	Looped color coded test point, white	.45 L x .063 Dia.	.29	.25	.19



125197



114810/114818



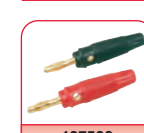
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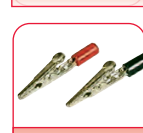
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72195



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70991



248921



256525



248939



248962



248972



1581986



1582065

Test/Tools

**Web Enabled Catalog**

Enter web codes online for additional product listings & specifications.  
Look for the web code box on the home page. [www.Jameco.com/More](http://www.Jameco.com/More)

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## JAMECO BenchPro 12-Piece Lightweight Computer-Service Tool Kit

- Kit includes:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers
  - Clear components tube holder
- Size: 8.5"L x 6.0"W x 1.5"H • Weight: 1.1 lbs.



Part No.	Description	1	5	25
167206	12-piece tool kit .....	\$15.95	\$13.95	\$11.95

## 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits
- Driver handle
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.



Part No.	Description	1	5	25
170069	26-pc. SAE tool set .....	\$17.95	\$15.95	\$12.95

## JAMECO BenchPro 40-Piece Electronic Tech Tool Kit

- Kit includes:
  - Wire cutters/ stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - 10-pc screwdriver set
  - T10-T25 reversible
  - Torx screwdriver bits
  - Potentiometer alignment tools
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - Extra long 3-claw parts holder
  - IC inserter with pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.



Part No.	Description	1	5	25
119183	40-piece tool kit .....	\$21.95	\$19.95	\$17.95

## JAMECO BenchPro 51-Piece Tech Tool Kit

- Kit includes:
  - Storage box
  - 4 pliers
  - Tweezers
  - 7-piece hex key set
  - Scissors
  - PVC insulated tape
  - Multimeter
  - 10-piece screwdriver set
  - Utility knife (3 blades)
  - 3-piece soldering aid kit
  - Desoldering pump
  - 6-piece electronic screwdriver set
  - Soldering iron with stand and sponge
  - Brush
  - 2 Needle files
  - Wrench
  - Solder core
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H
- Weight: 10.4 lbs.



Part No.	Description	1	5
26681	51-piece tool kit .....	\$99.95	\$89.95

\*For Tool Kits — Enter Web Code CAA

## JAMECO BenchPro 52-Piece Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a hand-some lockable case, with room for spare parts or special equipment.

- Kit includes:
  - 7 pliers
  - Storage box
  - Wrench
  - 3-piece soldering aid kit
  - Soldering iron with stand and sponge
  - 10-piece screwdriver set
  - Brush
  - 6-piece screwdriver set
  - Desolder pump
  - Testing screwdriver
  - IC extractor
  - 7-piece hex set
  - 6-piece wrench set
  - PVC insulated tape
  - Solder core
  - Heat sink
  - Measuring tape
  - Desolder wick
  - Crimping tool
  - Oil can
  - 5-piece file set
  - Alignment tool
  - Flashlight
  - 3-prong holder
  - Hammer
  - Scissors
  - Part tube
  - Utility knife (3 blades)
  - Tweezers
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.



Part No.	Description	1	5
218245	52-piece electronic tool kit ....	\$129.95	\$115.95

## JAMECO BenchPro 69-Piece Tech Service Tool Kit

- Kit includes:
  - Storage box
  - 7 pliers
  - Tweezers
  - Spring hook
  - 3-piece soldering aid kit
  - Desoldering pump
  - 3-piece alignment tool set
  - Diagonal cutter
  - Soldering iron
  - Forceps
  - 9-piece screwdriver set
  - Wire stripper
  - 5-piece file set
  - Flashlight
  - 3-prong holder
  - PVC insulated tape
  - Heat sink
  - Measuring tape
  - 6-piece electronic screwdriver set
  - 40-piece socket & screwdriver set
  - 10-piece electronic wrench set
  - Drill
  - Desoldering wick
  - Brush
  - Crimping tool
  - Extractor
  - 7-piece hex key set
  - Hammer
  - Solder core
  - Wrist strap
  - Inspection Mirror
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.



Part No.	Description	1	5
149024	69-piece tool kit .....	\$299.95	\$269.95

## Aluminum Tool Cases

Made of lightweight aluminum, these tool cases are designed to take rough field use.

- Size: 19.0"L x 14.0"W x 6.0"
- 261877 Includes: Tool pallet, egg carton foam lid and 2.5" thick pre-cut foam bottom
- 261884 Includes: Single inside panel and adjustable compartments



Part No.	Description	1	5
261877	Tool/equipment case .....	\$44.95	\$39.95
261884	Tool case .....	34.95	29.95

\*Web Code: ABR

## JAMECO BenchPro 100-Piece Professional Electronics Tool Kit

- Kit includes:
  - Soldering iron
  - 12 screwdrivers
  - 7-piece hex key set
  - Extractor
  - 4 Pliers
  - Adjustable wrench
  - Crimper/Stripper
  - 6-piece screwdriver set
  - 3-piece soldering aid kit
  - Desoldering pump
  - Multimeter
  - Tweezers
  - 5-piece file set
  - 10-piece wrench set
  - Voltage tester
  - 2 bottles cleaning liquid
  - Blade cutters
  - Cordless screwdriver kit (bits included)
  - Vise
  - Flashlight
  - Brush
  - Soldering stand
  - Solder pen
  - Cutters
  - Storage box
  - Tape
  - Wrist strap
  - Vacuum cleaner
  - Scissors
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.



Part No.	Description	1	5
242851	100-piece tool kit .....	\$199.95	\$159.95

## Weller® 250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle;
- 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord



Part No.	Mfr.	Part No.	Wt. (lbs.)	1	5
191943	6966C		1.2	\$139.95	\$129.95

## JAMECO BenchPro 1000-Watt Heat Gun

- Input voltage: 110-120VAC
- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks and loosen rusted bolts



Part No.	Description	1	5	25
254925	Heat gun .....	\$39.95	\$35.95	\$29.95
2007062	Tip kit .....	12.95	11.95	10.95

## JAMECO BenchPro Heat Gun/Stripper

### Dual-Setting 1500-Watt

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed • Weight: 1.8 lbs.
- Size: 9.3"L x 7.0"W



Part No.	Description	1	5	25
76865	Heat gun .....	\$39.95	\$35.95	\$32.95
217816	Heat shrink attachment .....	1.95	1.69	1.49
217832	Air spreader .....	1.95	1.69	1.49



## Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included)
- Size: 7.3"L x 6.3"W



Part No.	Description	1	5	25
72696	Glue gun	\$9.95	\$8.49	\$6.95
78633	Glue sticks (12/pk)	2.95	2.49	1.95

## R<sup>2</sup> RapidRench Adjustable Ratcheting Socket Wrench

- Replaces 38 most popular socket sizes
- Fits hundreds of SAE and metric fasteners
- Tighten or loosen with a flip of a switch
- Dial adjusts jaws to the exact size of the fastener
- Jaw capacity: 1/4" to 7/8" (6.35mm to 22.2mm)
- Rubberized comfort grip for extra control



Part No.	Mfr. Part No.	1	5
1943131	FR28SWMP	\$28.95	\$25.95

**\*Wrenches — Enter Web Code WEL**

## RapidSlide Adjustable Wrench

- Slide/control button on handle for fast, easy and accurate jaw adjustment
- SAE/metric adjustment markings on head
- 1" maximum jaw opening allows each tool to work with more fastener sizes
- Wider handle provides more comfort and less stress to the hands



Part No.	Mfr. Part No.	1	5
1943123	AC8NKWMP	\$19.95	\$17.95

## Automatic Wire Stripper

- Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

**Includes:** Wire stopper for desired strip length



Part No.	Description	1	5	25
175098	Strips 8-22 AWG	\$16.95	\$15.49	\$13.95

## Rotary Coax Cable Strippers

### 2 and 3 Blade

#### 159119 (3 Blade):

- 2 settings RG58/59/62
- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black

159119

#### 159185 (2 Blades):

- 4 settings RG58/59/62/174
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
- Color: gray



**Includes:** Hex key wrench for adjusting blade

Part No.	Mfr. Part No.	1	5	25
159119	HT312B (3 blade)	\$9.95	\$9.45	\$8.95
159185	HT332D (2 blade)	9.95	9.45	8.95

**\*Heat Guns — Enter Web Code QAJ**

## 5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

### 78992: 10-30 AWG

(screw adjustable)

### 215889: 10-24 AWG (dial to adjust for wire gauge)



Part No.	Product No.	1	5	25	100
78992	HT108	\$4.49	\$3.95	\$3.49	\$2.95
215889	JE-2022C	3.95	3.69	3.29	2.95

**\*Cutters/Strippers — Enter Web Code BAK**

## 6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

### 161226: Premium

12-20 AWG stranded; 10-18 AWG solid

### 161234: Premium

16-26 AWG stranded; 14-24 AWG solid

### 161218: Standard

16-26 AWG stranded; 14-24 AWG solid

Color: red

Part No.	Mfr. Part No.	Description	1	5
161226	ID45-215	Cushioned grips	\$15.95	\$14.95
161234	ID45-216	Cushioned grips	15.95	14.95
161218	ID45-121	Non-cushioned grips	14.49	12.95

## 6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W

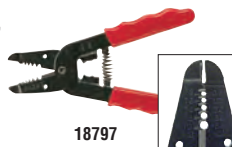


Part No.	Mfr. Part No.	1	5	25
159291	HT5023	\$9.95	\$8.95	\$7.95

**\*Wire Strippers — Enter Web Code HAY**

## 7-in-1 Wire-Handling Tools

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



Part No.	Mfr. Part No.	Description	1	5	25
18797	HT1041	10-18AWG	\$5.95	\$5.49	\$4.95
127862	HT1042	16-26AWG	5.95	5.49	4.95
127871	HT1043	22-30AWG	5.95	5.49	4.95

## Hand Tools for Mini-Fit™ Jr.



304928: Accepts wire range from 14-24 AWG

Part No.	Mfr. Part No.	Description	1	5
304928	63811-1000	Crimp tool	\$49.95	\$44.95
304936	11-03-0044	Extraction tool	19.95	18.95

## Metal Modular Connector Crimping Tool

- Cable stripper/wire cutter
- Size: 8.0"L • Wt.: 1.8lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)



Part No.	Description	1	5	25
114527	RJ11/RJ45	\$22.95	\$19.95	\$17.95

## Ratcheted Modular Connector Crimping Tool

- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.



Part No.	Description	1	5	25
159312	RJ45/11/12	\$22.95	\$19.95	\$17.95

## Modular Cut/Crimp/Strip Tools

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections

**Includes:** Cut and strip blade

174684: • Size: 8.0"L x 2.0"W

• Weight: 0.8 lbs.

174676: • Size: 8.5"L x 2.2"W

• Weight: 1.2 lbs.

161091: • Size: 6.0"L x 2.0"W

• Weight: 0.8 lbs.



Part No.	Mfr.	Cross Ref. No.	1	5
174684	Various	TTK071	\$23.95	\$21.95
174676	Various	TTK070	25.95	23.49
161091	Ideal	ID30-496	49.95	45.95

## Modular Connector Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps RJ11 and RJ45 plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.

**Includes:** 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C



Part No.	Product No.	1	5
73496	HT2000B	\$75.95	\$69.95

## Hex Crimp Tools

- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule
- 261745: 1.7mm standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule
- 261737: Ferrules up to 1/2"



Part No.	Description	1	5
261745	Hex crimp tool (3/8")	\$19.95	\$18.95
261737	Hex crimp tool (1/2")	19.95	18.95

## Helping You Find What You Need

Can't find the product you're looking for?  
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**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

## Connector Compression

Designed to compress ferrules of "F" /BNC/ RCA connectors. Black oxide steel frame with interchangeable die sockets, ratchet mechanism with manual release disengages after a complete cycle securing a fully compressed ferrule. Integrated coax cutter for cutting cables to appropriate lengths.



Part No.	Description	1	5
261761	Compression multi-tool	\$39.95	\$35.95



## Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- With cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W



Part No.	Mfr. Part No.	1	5	25
99443	HT202A	\$8.95	\$7.95	\$6.95

\*Crimping Tools — Enter Web Code PAL



## D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377, 43369 pg 69 and 100766, pg 81
- Size: 7.0"L x 4.0"W

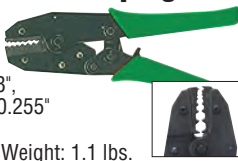


Part No.	Mfr. Part No.	1	5	25
159266	HT213	\$10.95	\$9.95	\$8.95



## Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- All steel construction
- Size: 8.5"L x 2.5"W • Weight: 1.1 lbs.



Part No.	Mfr. Part No.	1	5	25
114535	HT-336G	\$22.95	\$19.95	\$17.95

## Half-Round Long Nose Pliers

- Drop forged steel
- Heat treated
- Spring return action
- Length: 4.5"
- Vinyl grips
- Knurled jaws



Part No.	Description	1	5	25
177608	Half-round pliers	\$4.95	\$4.49	\$3.95

## Precision 5-Piece Stainless Steel Pliers Set



- Spring return
- Insulated handles

**Includes:** One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	5	25
73121	5-piece set	0.6	\$17.95	\$15.95	\$13.95



## 5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Cutter angled at 45° for use in tight places

- Spring loaded for easy use
- Insulated grips

Part No.	Description	Size	1	5	25	100
159274	HT1091	5.0"L x 3.0"W	\$4.95	\$4.49	\$3.95	\$3.49

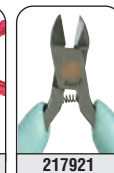


## Xcelite

## General Purpose Pliers and Cutters

### Needle Nose, Diagonal Pliers and Cutters

- Cushion grips
- General purpose use
- Positive gripping of wire & subminiature components
- Narrow and fine tips provide increased clearance and allows use in restricted areas



### Needle Nose Pliers

Part No.	Mfr. Part No.	Description	1	5
217891	L4	4" mini needle nose	\$17.95	\$16.49
217998	LN54G	5" thin long nose	18.95	17.49
146721	NN7776V	5" long nose flat	19.95	18.95

### Shearcutter Pliers Set

Part No.	Mfr. Part No.	Description	1	5
152055	S2K	5.6" plier/5.2" cutter	\$16.95	\$15.95

### Diagonal Cutters

Part No.	Mfr. Part No.	Description	1	5
217921	MS54J	4" oval head-flush	\$17.95	\$16.95
1536974	S475NJS	4" relieved head-flush	16.95	15.95
217904	MS549J	4" tapered head-flush	17.95	16.95
217867	MS545J	4" slim-line tapered-flush	16.95	15.95
146739	MS54V	4" diagonal semi-flush	16.95	15.95

### Micro Series Wire Cutter

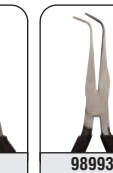
Part No.	Mfr. Part No.	Description	1	5
146712	170M	6" cutter flush	\$6.49	\$5.95

## EXIMCORP

## Pliers and Cutters

### Diagonal, Needle Nose, Nipper, Square, Bent Nose, Sportsmen & Electrician Pliers

- General purpose for picking-up, cutting and wire forming
- Forged steel
- Heat treated
- Insulated grips
- Blister packaged



### Diagonal Flush Cutters

Part No.	Description	1	5	25
34622	4.5" spring loaded	\$4.95	\$4.49	\$3.95
34607	5" spring loaded	4.95	4.49	3.95
34658	5.25" heavy duty	5.49	4.95	4.49

### Needle Oval Nose Pliers with Serrated Jaws

Part No.	Description	1	5	25
42104	5.25" standard	\$5.95	\$5.49	\$4.95

### Needle Oval Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
34691	7.75" spring loaded	\$4.95	\$4.49	\$3.95
34712	5.25 spring loaded	5.49	4.95	4.49

### Needle Oval Long Nose Pliers w/Serrated Jaws

Part No.	Description	1	5	25
34674	7" spring loaded	\$6.95	\$6.25	\$5.59

### Bent Oval Nose Pliers with Serrated Jaws

Part No.	Description	1	5	25
34796	5" standard bend	\$4.95	\$4.49	\$3.95
34826	6" slim spring loaded	5.95	5.49	4.95
34851	7" standard bend	5.95	5.49	4.95

\*EXIMCORP Pliers & Cutters — Enter Web Code EXP

### Bent Oval Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
34746	5.25" standard bend	\$4.95	\$4.49	\$3.95
34762	7" standard bend	5.95	5.49	4.95

### Square Nose Cutters with Serrated Jaws

Part No.	Description	1	5	25
94512	5.5" standard w/o cutter	\$5.49	\$4.95	\$4.49
94530	4.75" spring loaded w/ cutter	4.95	4.49	3.95
94546	5.25" standard straight	5.95	5.49	4.95

### Nipper Nose Pliers Spring Loaded

Part No.	Description	1	5	25
94554	4.25" standard	\$4.95	\$4.49	\$3.95
94562	5.25" slim	5.95	5.49	4.95

### Sportsmen's Square Straight & Bent Nose Pliers

Part No.	Description	1	5	25
98976	6.25" standard straight	\$5.95	\$5.49	\$4.95
104257	8" standard straight	6.95	6.25	5.59
98985	5.25" standard bent	5.95	5.49	4.95
98993	7.5" standard bent	6.95	6.25	5.59

### Electricians Pliers with Serrated Jaws

Part No.	Description	1	5	25
104125	6.25" standard with cutter	\$5.95	\$5.49	\$4.95
104249	8.25" standard with cutter	6.95	6.25	5.59

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.



## 5" Cutting Pliers

- Carbon steel
- Side and flush cutting
- Black foam handles



Part No.	Description	1	10	50
261789	Cutting pliers w/ leaf spring	\$5.95	\$5.49	\$4.95
261810	Cutting pliers w/ spring	4.95	4.49	3.95

## 5.3" Flat and Half-Round Long Nose Pliers

- Stainless steel
- Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose



Part No.	Description	1	10	50	250
35474	Flat long nose	\$4.95	\$4.49	\$3.95	\$3.49
195531	Flat long nose	5.95	5.49	4.95	4.49
35491	Half round	4.95	4.49	3.95	3.49

## 4" Diagonal Wire Cutter

- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"



Part No.	Description	1	10	50	100
179902	Wire cutter	\$3.95	\$3.59	\$3.29	\$2.95

## Diagonal Wire Cutters

- Jaws are designed for flush cutting
- Cuts component wire up to 1.2mm thick
- 0.5" cutting blade
- 35482: 4.3" Cutter
- Durable rubber handles
- Stainless steel
- 161411: 5" Cutter
- Cuts 0.08mm fine wire
- Insulated handles



\*Web Code: HAF

Part No.	Size	1	10	50
35482	4.3"L x 2.1"W	\$6.95	\$6.49	\$5.95
161411	5.0"L x 1.8"W	6.95	6.49	5.95

## PC Board Drill Bits

- Shaft diameter: .125"
- Use for drilling holes in glass PC boards



Part No.	Size	Dia.	1	10	100
1919537	1/8	.125"	\$ .99	\$ .75	\$ .59
1919588	31	.120"	.99	.75	.59
1919300	32	.116"	.99	.75	.59
1919609	33	.113"	.99	.75	.59
1919553	35	.110"	.99	.75	.59
1919570	38	.102"	.99	.75	.59
1919502	45	.082"	.99	.75	.59
1919596	46	.081"	.99	.75	.59
1919561	48	.076"	.99	.75	.59
16580	59	.040"	1.75	1.49	.99
16619	75	.021"	1.75	1.49	.99

## High-Speed Steel Step Drill Bits

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.



Part No.	Description	1	10	50
229657	3/16" - 7/8" 13-step	\$14.95	\$13.49	\$11.95
172401	3/16" - 1/2" 6-step	9.95	8.95	7.95

JAMECO  
BenchPro

## 32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

**Includes:** Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver



Part No.	Description	1	10
223829	32-piece security bit set	\$10.95	\$9.95

## 6-Piece Screwdriver & Pliers Set

- One micro cutting nipper
- One micro flat nose pliers
- 2 long-neck slotted: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L
- 2 long-neck Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L



Part No.	Description	1	10	50
99565	Screwdriver/pliers	\$14.95	\$13.49	\$11.95

\*Drill Bits — Enter Web Code NEJ

## 6-Pc Precision Screwdriver Sets

**34041 Includes:** 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers



**34059 Includes:** 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers

Part No.	Description	1	10
34041	Slotted set	\$2.95	\$2.59
34059	Phillips set	2.95	2.59

## 11-Pc Precision Screwdriver Set

- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdrivers
- Awl
- Magnetic pick-up



Part No.	Description	1	10
226094	Precision screwdriver set	\$3.95	\$2.95

## 6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T10 x 50mm Torx hex screwdrivers



Part No.	Description	1	10
226106	Precision TORX screwdriver	\$13.95	\$11.95

## 6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L; 0.12"Dia. x 6.6"L; 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L



Part No.	Description	1	10
99451	6-pc. screwdriver set	\$8.95	\$7.95

## 7-Pc Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips

**Includes:** 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips



Part No.	Description	1	10
261999	Screwdriver set	\$15.95	\$14.49

## 7-Pc SAE Nut Driver Set

- Premium hardened steel sockets
- Large colored handles
- Sizes: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16" and 1/2"



Part No.	Description	1	10
261842	SAE nut driver set	\$6.95	\$5.95

## Pocket Screwdriver

Phillips & Flat head

\*Web Code: CAQ

- Size: 6"L
- Pen clip for pocket storage



Part No.	Description	1	10	100
127271	Pocket screwdriver	\$1.95	\$1.59	\$1.39

\*Screwdrivers — Enter Web Code CAQ

JAMECO  
BenchPro

## Mini-Drill and Stand

This Mini-Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	5	25
26702	GTT-103A drill	0.8	\$34.95	\$31.95	\$27.95
26711	GTT-104 stand	1.8	25.95	23.95	21.95



## More Information Online

Compare products online to quickly find the products you want with the specifications and real time product availability. Purchasing products has never been easier.

[www.Jameco.com](http://www.Jameco.com)

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Automatic Center-Punch Tool

### Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body
- Size: 5.0"L x 0.5"Dia.



Part No.	Description	1	10
160282	Center punch tool	\$5.95	\$5.49

## Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

175071



### 175071: Tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H

### 324014: Tool with blade

- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H

\*Web Code: PBC

### 175089: Punch-down blade 110-type terminals

### 324021: Punch-down blade 66-type terminals

Part No.	Description	1	5
175071	Tool with 66 blade	\$29.95	\$27.95
324014	Tool with 110 blade	29.95	27.95
175089	Punch-down blade 110	9.95	8.95
324021	Punch-down blade 66	9.95	8.95

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.

- Knurled handle for easy grip
- 5" long



Part No.	Description	1	5
242801	Tool (regular)	\$19.95	\$18.95
242798	Tool (modified)	22.95	21.95
242827	Replacement tip (242801)	7.95	7.29
242819	Replacement tip (242798)	7.95	7.29
242835	Replace stripper assembly	5.95	5.49



## Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 57 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long



\*Web Code: BBC

Part No.	Product No.	1	5
34585	HSM30 (Modified)	\$49.95	\$44.95
236785	HSR30 (Regular)	29.95	25.95

## 1/4-Watt & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"
- Size: 5.4"L x 1.5"W



Part No.	Description	1	10
106884	1/4W & 1/2W	\$4.95	\$4.49



## Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required • Size: 7.8"L



Part No.	Mfr. P/N	Description	1	10
18810	HT204	Nibbling tool	\$7.95	\$6.95
29331	HT204B	Replace. bit	3.95	3.55

## Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

Includes: 13 types of blades



Part No.	Description	1	10	100
72768	13 blade knife set	\$8.95	\$7.95	\$6.95

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions



Part No.	Cross Ref. No.	Description	1	10	100
115107	HEM01	Straight	\$3.95	\$2.95	\$2.49
115115	HEM02	Curved	3.95	2.95	2.49

## Metal Dial Calipers

### Choose Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal • Color: silver



Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	5	25
116134	Metric (.02 mm)	\$25.95	\$23.95	\$21.95
116126	Inches (.001 inch)	25.95	23.95	21.95
684449	Metric/Inches	27.95	25.95	23.95

## Digital Display Caliper

### Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements • One-year warranty
- Calipers measure to 6 inches/150mm



Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 146)

Part No.	Description	1	5
127482	Digital disp. caliper	\$39.95	\$36.95

\*Calipers — Enter Web Code PAQ

## IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.



- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic • Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

Part No.	Description	1	10	100
99363	IC straightener	\$7.95	\$6.95	\$5.95

## T-Handle Reamer Tool

### Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long



Part No.	Description	1	10
151750	T-handle reamer	\$7.95	\$6.95

## 4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	100
10735	4-piece tweezer set	\$5.95	\$5.49	\$4.95

\*Tweezer Sets — Enter Web Code FAA

## Tweezers

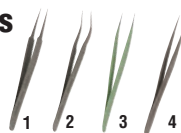
252929: Straight round tapered, fine-point tip, stainless steel

253092: Curved fine-point tip

252938: Self-closing reverse-action tweezers; medium point tip; stainless steel

253113: Fine-point tip, insulated, anti-static

252912: Straight fine-point tip



Part No.	Length	Photo	1	10	100
252929	4.75"	1	\$2.95	\$2.49	\$1.95
253092	4.6"	2	2.95	2.49	1.95
252938	4.30"	2	2.95	2.49	1.95
253113	4.75"	3	2.95	2.49	1.95
252912	4.75"	4	2.95	2.49	1.95

## 4-Pc. Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10
172638	4-piece tweezer set	\$9.95	\$8.95

## Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W

- One-year warranty

Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips



Part No.	Description	1	5
88268	Vacuum pick & place kit	\$39.95	\$36.95

## PLCC & DIP IC Extractors

- Size: 4.0"L x 2.0"W

\*Web Code: MAB



Part No.	Mfr. Part No.	Description	1	10	100
16766	HT103B	PLCC	\$3.95	\$3.49	\$2.95
16838	HT103A	DIP	1.65	1.49	1.25

## Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ground strap: 15.5"L



Part No.	Description	1	10	100
100328	Heel strap	\$5.95	\$5.49	\$4.95

## Anti-Static Wrist Strap

- Comfortable, adjustable black Velcro wrist strap
- The coiled grounding cord has banana plug and alligator clips
- Extended cord: 9' long

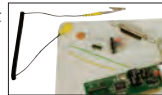


**Includes:** 1MΩ resistor for added safety

Part No.	Description	1	10	100
34552	Wrist strap	\$6.95	\$6.49	\$5.95

## Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.



Part No.	Dimensions	Wt. (lbs.)	1	10	100
10576	11.3" x 22"	0.7	\$8.95	\$7.95	\$6.95
10584	19.5" x 23.5"	1.1	\$13.95	\$12.49	\$10.95
236541	23.5" x 27.5"	1.4	\$25.95	\$22.95	\$19.95

\* Anti-Static — Enter Web Code XAA

## Conductive Anti-Static Foam and Bags

**Don't get zapped!**

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.



**13864:** 24.0"L x 12.0"W x 0.25"H

Part No.	Description	1	10	100
13864	Anti-static foam	\$10.95	\$9.95	\$8.95
249519	4" x 6" anti-static bags	.49	.39	.29
249527	5" x 7" anti-static bags	.59	.49	.39
78650	8" x 10" anti-static bags	.69	.59	.49

## Anti-Static Plastic DIP IC Storage Tubes and Rubber Rail Stops

**29516:** Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin ICs 300 mil • Length: 23.75"

**29583:** Rubber stops used to plug plastic rail ends



ICs not included

\* Order in multiples of 10

Part No.	Cross Ref. No.	Description	1	10	100
29516	RIC20	Thin rail	\$ .25	\$ .22	\$ .19
29583	RRS	Rubber stop	* .07		.05

## 24" Joubert Bungee Cord

- Braided jacket cover
- 2.75" steel hook height
- 0.81" steel hook opening
- 0.16" thick PVC coated steel hook
- Blue cord with black coated hook
- Stretches easily to 48"



Part No.	Mfr. Part No.	1	10	100
2081668	JBC24	\$ .99	\$ .89	\$ .69

## JAMECO BenchPro 3X Magnifying Lamps

- 5" Dia. lens • 45" extension arm
- Supplied w/ 22-watt circuline tube
- Extra strong, all-metal mounting base with electrical outlet
- New wire clip design permits easy installation
- Metal bulb holder for extra protection • 3-diopter lens
- Power requirement: 110VAC/60Hz • Weight: 7.3 lbs.



Part No.	Description	1	5
100829	Black lamp	\$59.95	\$54.95
149981	White lamp	\$9.95	\$4.95

## JAMECO BenchPro Standard Adjustable 3X Magnifying Lamp

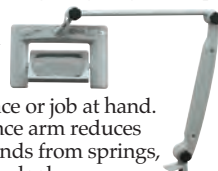
- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens • Weight: 2.9 lbs.



Part No.	Description	1	5
22710	Magnifying lamp	\$26.95	\$23.59

## JAMECO BenchPro 3X, 3-Bulb Magnifying Lamp

- Three 9-watt compact fluorescent bulbs located at the side and top of the lens provide superior lighting to your workspace or job at hand.
- The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.
- Adjustable 3-diopter lens • 7" x 4.5" rectangular lens
- 47" long arm • 2 on/off buttons
- Color: beige • UL listed • Weight: 8.15 lbs.



Part No.	Description	1	5
217517	Adj. magnifying lamp	\$89.95	\$84.95

## KLIP-ON Deluxe 3X Magnifying Lamps

Ideal for limited workspaces in home or office.

- High quality 3.5" Dia. glass lens w/ dust cover
- Heavy duty 2" spring loaded clamp
- Super bright 13 watt fluorescent bulb (6400 Kelvin) included • Weight: 2.0 lbs.
- 16" gooseneck-directs light in any directions



Part No.	Mfr. Part No.	Color	1	5
1955044	LUX250W	White	\$34.95	\$31.49
1955052	LUX250B	Black	\$4.95	\$1.49

## Precision 5 Diopter Magnifying Lamp

The arm extends to 40", is adjustable to any direction or angle, and has a 5 diopter lens. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens • Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz
- Includes:** 22W circuline fluorescent bulb



Part No.	Description	1	5
197456	Magnifying lamp	\$99.95	\$89.95

\* Magnifying Lamps — Enter Web Code DAW

## General Purpose Illuminated 3X Magnifier

- 3.75"Dia. x 7.5"L
- Great for magnifying fine print
- 75mm diameter lens
- Light requires 2 AA batteries (not included, recommend P/N 198707, pg 146)



Part No.	Description	1	5
149542	Illuminated magnifier	\$4.95	\$4.49

## 3X Flexible Neck Magnifier

- 3.5" diameter & 3x diopter lens
- Flexible gooseneck with workbench clamp
- Arm length: 20"
- Weight: 1.8 lbs.



Part No.	Description	1	5
239548	Flexible neck magnifier	\$10.95	9.95

## 16 to 30-Watt Variable Soldering Iron & Stand

**116572:** Length: 7.5"

- 36329:**
- Black anodized steel base — 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" dia.



**Includes:** Sponge

Part No.	Description	1	5	25
116572	258VL soldering iron	\$19.95	\$17.95	\$15.95
36329	Soldering stand	4.95	4.45	3.95
134631	Sponge (for P/N 36329)	2.95	2.59	2.29

## 25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord
- 25-watt power consumption
- Interchangeable tips (pg 165) • UL listed
- Length: 8.0" • One-year warranty



**Includes:** 1.6mm conical tip

Part No.	Mfr. Part No.	1	5	25
129040	200GX-25W	\$13.95	\$11.95	\$9.95

## 25-60-Watt High-Performance, Economical Soldering Irons

High-quality soldering irons that are suitable for both professional & do-it-yourself applications.

- Length: 9"
- 120VAC; 6' cord with 3-prong plug
- Tips for P/Ns 224611/224602: P/N 226018/226000 conical
- Tip for P/N 195223: P/N 226026
- For additional tips see pg 165



Part No.	Mfr. Part No.	1	5	25
224611	200PHG-25W	\$10.95	\$9.95	\$8.95
224602	200PHG-40W	11.95	10.95	9.95
195223	200PHG-60W	12.95	11.49	10.49
226018	44-240513 conical tip	1.95	1.59	1.29
226000	44-240517 chisel tip	1.95	1.59	1.29
226026	44-240617 chisel tip	1.95	1.59	1.29

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Weller® 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
  - Interchangeable heater elements
  - Lightweight handle with cushioned grip
  - Quick change knurled collar • Length: 9"
- Includes:** Power cord & ST3 tip (pg 163)

Part No.	Mfr. Part No.	Description	1	5
170587	WP25	25W solder iron ...	\$39.95	\$37.95
192102	WP35	35W solder iron .....	47.95	45.95
146608	ST3	Screwdriver tip 1/16"	5.95	4.95
146616	ST3	Screwdriver tip 1/8"	5.95	4.95
192145	ST6	Screwdriver tip .031"	5.95	4.95
146624	ST7	Conical tip 1/32"	5.49	4.49

## Weller® 25 & 40-Watt Marksman Home Project Kits

Perfect for beginners and hobbyists comes with stand

- Stainless steel barrel and heat/impact resistant handle
- Ideal for kits, radios and electronics
- Indicator light shows iron is on

**2094143 Includes:** Knife and 2 tips  
**2094160 Includes:** Soldering aid tool, 3 tips and solder

Part No.	Mfr. Part No.	Description	1	5
2094143	SP23LHPK	25W Iron kit .....	\$19.95	\$18.95
2094160	SP40LK	40W Iron kit .....	24.95	23.49

## Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- 120VAC @ 60Hz input
- Length: 6" • Weight: 0.7 lbs.

**Includes:** CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Mfr. Part No.	Description	1	5
192081	W100PG	Solder iron .....	\$64.95	\$59.95
192090	CT6F7	.375" scrwdrv tip .....	6.95	6.29

## Weller® 25 to 125-Watt Cordless Soldering Iron Kit

- Self-igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

**Includes:** Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Mfr. Part No.	1	5
152207	PSI-100K	\$89.95	\$79.95

**\*Soldering Irons — Enter Web Code QAS**



**Need special orders or pricing?  
 Call us at 1-800-831-4242**



## 35-Watt SMD Tweezer Iron

- Max. temp.: 760°F
- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.

**Includes:** 0.078" tip

Part No.	Description	1	5	25
168410	Tweezer iron	\$54.95	\$49.95	\$44.95
168583	Tip .078"	9.95	8.95	7.95
168591	Tip .590"	11.95	10.95	9.95



## 50-Watt SMD Tweezer Iron

**168401 Includes:** 0.078" tip

**236460:** Replacement sponge

**168583:** 0.078" replacement tip (see above)

**168591:** 0.59" replacement tip (see above)

Part No.	Mfr. Part No.	For Use With	1	5
168401	TWZ50ESD	XY9-60A .....	\$49.95	\$44.95
236460	78-744615	XY9-60A .....	2.95	2.59



## Magna-Lite Butane Soldering Pencil

- Piezo electronic ignition system
- Adjustable gas flow valve controls temperature range
- Temperature range: 750°F to 900°F
- Up to 30 minutes continuous use on medium setting
- Window allows you to see gas level
- Can be used as a torch when tip is removed

**Includes:** 1.6mm conical tip

Part No.	Mfr. Part No.	1	5
1943051	ML500MP	\$15.95	\$14.95



## Butane Powered Cordless Soldering Iron

- Built-in on-off switch
- Can be used as a torch or hot blower
- Length: 8.5"
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load

Part No.	Mfr. Part No.	1	5
645520	GASIRON2	\$24.95	\$21.95

## Magna-Lite Butane Table-Top Torch

- Flame Temperature: 2500°F (1300°C)
- Waterproof piezo ignition
- Adjustable flame control
- Refills in 20 seconds with standard butane gas
- Run time: 60 minutes (@ middle flame setting)
- Child-resistant ignition for safety
- Uses: brazing, soldering, heat shrink tubing, industrial maintenance

Part No.	Mfr. Part No.	1	5
1943001	ML200	\$29.95	\$26.95



## 30 to 100-Watt Soldering Kit

**Includes:** 100W soldering gun with extra tip, 30W soldering iron, manual desoldering pump, mini third-hand board/component holder, lead solder, and soldering aid tool

• Size: 13.8"L x 11"W x 3"H

Part No.	Description	Weight	1	5
684596	GSR-600A	4.0 lbs. ....	\$35.95	\$29.95

## Weller® 8/11-Watt Battery Powered Soldering Iron

- Heats to working temperature in less than 15 seconds
- White LED light illuminates working surface
- Dual heat settings: 8 watts on low setting (850°F) or 11 watts on high setting (950°F)
- Co-molded grip for comfort grip and protective safety cap turns off power when placed on tool
- Over 150 intermittent solder joints with fresh batteries

**Includes:** Iron, tip, 4 "AA" batteries, lead free solder, and tip/wrench stand

Part No.	Mfr. Part No.	1	5
1943060	BP860MP	\$23.95	\$19.95

## Weller® Coldheat Pro Cordless Soldering Iron

Using the patented Coldheat™ system, the Weller Pro Cordless melts solder instantly and is cool to the touch in just seconds. The Weller Pro has the power industrial professionals need to tin wire as large as 12AWG or join wires from 18-25AWG, with an average yield of 700 solder joints per 5 AA Alkaline batteries.

- Polycarbonate body
- High/low/off power switch
- Bright white LED light
- Red "in use" indicator light
- Includes carrying case and CHT3 61° angle chisel tip

**Requires:** 5 AA Alkaline batteries (recommend 198707, pg 146, not included)

Part No.	Mfr. Part No.	1	5
684705	CHT100	\$39.95	\$35.95

## WAHL® 25-Watt Cordless Soldering Iron

**IsoTip® Power Pro Model #7904**

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron
- Weight: 1.1 lbs.

**Includes:** Iron, charging stand, battery pack and tips

Part No.	Description	1	5
132783	Power Pro cordless iron .....	\$69.95	\$64.95

## Need Solder?

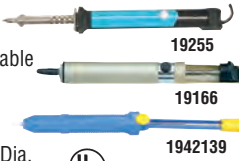
See page 166 for All Your Soldering Accessories.





## Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available
- 19255:** • UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.
- 19166:** Size: 7.8"L x 0.8"Dia.
- 1942139:** Size: 13.3"L x 1.0"Dia.



\* Web Code: GAS

Part No.	Description	1	5
19255	Electric desolder pump	\$26.95	\$23.95
19166	Manual desolder pump	4.95	4.49
1942139	Manual desolder pump	8.95	7.95
19262	1 tip for 19255	3.95	3.49
22091	2 tips for 19166	4.49	3.95
307782	1 tip for DP100	2.49	1.95

## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.



\* Web Code: GEJ

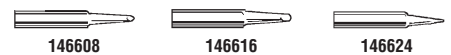
Includes: ST3 1/8" screwdriver tip and manual

Part No.	Mfr. Part No.	Description	1	5
146595	WLC100	40W station	\$59.95	\$54.95

## Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23

\* Web Code: NAB



Part No.	Mfr. P/N	Description	1	5
146608	ST1	Screwdriver tip 1/16" ...	\$5.95	\$4.95
146616	ST3	Screwdriver tip 1/8" ...	5.95	4.95
192145	ST6	Screwdriver tip .031" ...	5.95	4.95
146624	ST7	Conical tip 1/32" ...	5.49	4.49

## Weller® 42-Watt Controlled-Output Soldering Station

- Complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components
- 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.



Includes: Soldering iron and PTA7 tip (below)

• Tips all .062"

Part No.	Mfr. P/N	Description	1	5
170552	WTCP	Solder station	\$149.95	\$139.95
192161	TC201T	Replac. iron	79.95	72.95
192170	PTA6	Screwdriver tip 600°F ...	3.95	3.49
192188	PTA7	Screwdriver tip 700°F ...	3.95	3.49
192196	PTA8	Screwdriver tip 800°F ...	3.95	3.49

\* Soldering/Desoldering Stations — Enter Web Code GEJ



## 45-Watt Analog Display Soldering Station

### Grounded Soldering Tip

- 500°F to 850°F
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.



Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

**156814:** Sharp conical chisel tip



**156822:** Conical chisel tip

Part No.	Mfr. Part No.	Description	1	5
229673	XYT379-C	45W station	\$49.95	\$44.95
156814	XYB01	1/32" tip	3.95	3.49
156822	XYB04	1/16" tip	3.95	3.49
134631	SP715	Sponge	2.95	2.59

## Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0°F
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.



233533

Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

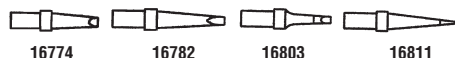
Part No.	Mfr. Part No.	Description	1	5
217461	WES51	Analog	\$124.95	\$121.95
233533	WESD51	Digital	169.95	159.95
2082847	PES51	Soldering iron	38.95	37.95

## Weller® Soldering Tips

### Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Additional tips can be special ordered

\* Web Code: NAB



Part No.	Mfr. P/N	Description	1	5
16774	ETA	Screwdriver 1/16" ...	\$6.95	\$6.29
16782	ETJ	Long screwdriver 1/32" ...	6.95	6.29
16803	ETR	Narrow screwdriver 1/16" ...	6.95	6.29
16811	ETS	Long conical 1/64" ...	6.95	6.29
2082783	WCC104	Replacement sponge	1.75	1.59

## Replacement Sponges for Legacy Model Soldering Stations

- 134640:** For 138-3
- 134631:** For XY-60D, XY-379 & XYT379-C

Part No.	Mfr. Part No.	1	5	25
134640	SP815	\$1.95	\$1.75	\$1.59
134631	SP715	2.95	2.59	2.29



## 70-Watt Soldering Stations

- Input: 110-120VAC @ 60Hz
- Nichrome heating element on soldering iron
- Temp. range: 200°C to 450°C (329°F to 842°F)
- Soldering iron assembly w/ nichrome heating element & K-type thermocouple sensor
- Adjustable knob for temperature setting
- Size: 8"L x 5.2"W x 3.8"H • Weight: 5.3 lbs.
- Includes: soldering station, soldering stand with cleaning pad, soldering iron, manual



1950711

### 1950711: Analog

- LED to indicate power (green), heater on (red)
- Temp. acc.: ±3°C • Uses model 209 soldering iron
- 1950729: Digital** • Temp. accuracy: ±1°C
- 0.560" (3-digit) LED display and red LED for heater on indicator
- ESD safe
- Uses model 209ESD soldering iron

\* Web Code: GEJ

Part No.	Mfr. Part No.	Description	1	5
1950711	169	Analog	\$99.95	\$89.95
1950729	169D	Digital	129.95	119.95

## Weller® 80-Watt Soldering Station

- 120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 to 80 watts
- Temperature is electronically controlled from 350° to 900°F
- Size: 5.5"L x 4.5"W x 3.5"H
- Weight: 2.1 lbs.



2082775

\* Web Code: GEJ

Includes: MTG21 1/4" chisel tip and manual

Part No.	Mfr. Part No.	Description	1	5
2082775	WLC200	Soldering station	\$69.95	\$65.95
2082812	MTG21	1/4" chisel tip	7.95	7.49
2082804	MTG20	3/8" chisel tip	7.95	7.49
2082821	MTG22	3/8" cone tip	8.95	8.49
2082783	WCC104	Sponge	1.75	1.59

## Weller® 85-Watt Digital Soldering Station

- New WP80 soldering pencil with short tip-to-grip (52mm)
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WDH10 soldering stand
- Size: 15.4"L x 10.2"W x 5.2"H
- Includes LTB tip
- Weight: 8.2 lbs.



\* Web Code: GEJ

Part No.	Mfr. Part No.	1	5
684772	WD1002	\$309.95	\$299.95

## Weller® 85-Watt Digital Soldering Station

- Extensive special functions menu allows you to use setback, lockout, standby, auto-off time and more
- Heating element is contained in pencil rather than tip
- Micro pencil with short tip-to-grip (37mm) puts you close to the work
- Iron stand has adjustable tilt angle in 4 positions ranging from 30° to 80°
- Includes NT1 tip
- Uses WMP soldering pencil and WDH20 iron stand
- Size: 15.9"L x 10.9"W x 5.8"H • Weight: 7.5 lbs.



\* Web Code: GEJ

Part No.	Mfr. Part No.	1	5
684781	WD1001	\$309.95	\$294.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## 100-Watt ESD-Safe, Lead-Free Soldering Station

The ideal tool for service and repair technicians as well as production line soldering operators.

- Specifically designed for RoHS-compliant soldering
- $\pm 3^\circ\text{C}$  temp. stability • 100W, 115/230VAC 50/60Hz
- Temperature adjustable 0-45°C (0-85°F)
- 24VAC Hi-Recovery nichrome heating
- Auto power down idle circuitry, 15-min non-operation
- 45 second ramp time to max temp setting
- Full digital LED readout in both °C and °F
- Size: 6.1"W x 6"D x 4"H • Weight: 8.0 lbs.



Part No.	Description	1	5
667551	LF-1000 soldering station	\$139.95	\$125.95

## Desoldering Tips

NEW MARKED IN PINK

- Replacement tips for LF7000 P/N 1919107 and LF8000 P/N 1919115



Part No.	Product No.	1	5	25
2095496	Desolder tip 1mm	\$8.95	\$7.95	\$6.95
2095509	Desolder tip 1.2mm	8.95	7.95	6.95
2095517	Desolder tip 1.5mm	8.95	7.95	6.95

## CHIPQUIK® SMD Removal Kit

- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins
- Uses simple equipment and materials for application and clean-up



NEW MARKED IN PINK

Part No.	Description	1	5
141305	SMD removal kit	\$24.95	\$22.45

## Solder Tool Kit

### For Beginners

- Includes: Soldering iron with stand, long nose pliers, wire strippers, side cutters and sponge.



Part No.	Description	1	5
358598	7-piece tool soldering kit	\$15.95	\$13.95

Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.

## 90-Watt Analog Soldering & Desoldering Station

- Soldering iron: 32VAC output, 90 watt, 200°C to 480°C (400°F to 900°F) temperature range with 1.6mm/1/16" tip • Input voltage: 100 – 120VAC @ 60Hz
- Desoldering iron (DIA80): 32VAC output, 80 watt, 300°C to 450°C (570°F to 850°F) temperature range, with 1.2mm/0.048" tip • Temp. stability:  $\pm 3^\circ\text{C}$  (6°F)
- Pump controlled by a finger actuated thyristor on desoldering iron
- Automatic power down after 15 minutes of idle as indicated by pause LED
- Dials for temperature settings on both soldering and desoldering iron
- Self-contained vacuum pump engineered to provide continuous, maintenance free operation
- Zero voltage switching and full grounded design
- Analog readout for vacuum pressure



**Includes:** 104A/105A soldering stands, A-2000-1 soldering stand, DIA80 desoldering iron with #44-915412 tip, 210ESD soldering iron with #44-415404 tip, 5pc. 5" high precision tweezers, AX205 5" micro cutting pliers, steel brush/cotton/foam replacement filters, power cable, and instruction manual

Part No.	Mfr. Part No.	Description	1	5
1919107	LF-7000	Analog solder/desolder station	\$399.95	\$359.95

## 100-Watt High-Powered Soldering & Desoldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Soldering iron (heater output, power and temp. range): 32VAC, 100W, 200°C to 450°C (400°F to 850°F)
- Desoldering iron (heater output, power, and temperature range): 32VAC, 80W, 300°C to 450°C (570°F to 850°F)
- Temp. stability:  $\pm 3^\circ\text{C}$  (6°F)
- Pump controlled by a finger actuated thyristor on desoldering iron
- Zero voltage switching & fully grounded design
- Adjustable temperature w/o changing tips
- Auto power down after 15 min. of idle
- Detachable soldering iron and desoldering wand
- Self contained vacuum pump engineered to provide continuous, maintenance free operation
- Digital readout for temperature
- Analog readout for vacuum pressure
- Size: 10.8"W x 12.5"D x 6.1"H



**Includes:** 104A/105A soldering stands, DIA80 desoldering iron, 210ESD soldering iron, steel brush, foam filters, power cord, diagonal wire cutters, 5 high precision tweezers and instruction manual

Part No.	Mfr. Part No.	1	5
1919115	LF-8000	\$489.95	\$464.95

## 80-Watt Desoldering Station

- Input voltage: 100 – 120VAC @ 60Hz
- Heater: 32V, 80W
- Large digital temperature display
- Adjustable temperature without changing tips
- Tip temperature accurate to  $\pm 3^\circ\text{C}$  (6°F)
- Zero voltage switching & fully grounded design makes this unit safe on electro-sensitive devices
- Suction controlled by a finger actuator thyristor located on the desoldering handle
- Self contained diaphragm vacuum pump engineered to provide continuous, maintenance free operation
- Temperature range: 300°C to 450°C (572°F to 842°F)
- Size: 7.9"W x 9.3"D x 4.5"H



**Includes:** DIA80 desoldering iron, 2 soldering stands, foam filters, & cleaning brush

Part No.	Mfr. Part No.	1	5
1919094	LF-6000	\$349.95	\$315.95

\* Soldering/Desoldering Stations — Enter Web Code GEJ

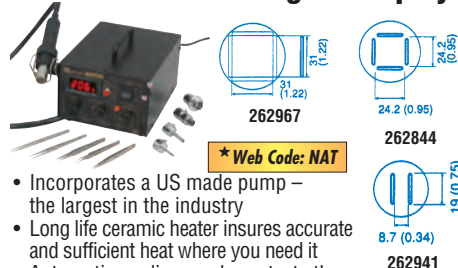
## Vacuum Pen Tools



- ESD safe body
- Picks up components with weight of 1.1 lbs. or less

Part No.	Description	1	5
207239	Handivac tool (4 tips/cups)	\$19.95	\$17.95
207247	Pen vac tool (6 tips/cups)	39.95	33.95

## 420-Watt Hot Air SMD Rework Station with Digital Display



\* Web Code: NAT

- Incorporates a US made pump – the largest in the industry
  - Long life ceramic heater insures accurate and sufficient heat where you need it
  - Automatic cooling mode protects the heating element
  - Power supply: 100-120VAC or 220-240VAC
  - Airflow capacity: 1.5L/min. to 28L/min.
  - 310W nichrome heating element
  - Electronically controlled temperature system with digital readout in preset and actual temperature
  - Hot air temp. range: 100°C - 385°C (212°F - 725°F)
  - 25W diaphragm pump • Adjustable air-flow
  - Size: 7.4"W x 9.6"D x 5.0"H • Weight: 10.8 lbs.
- Includes:** Precision 5-pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895 and 262908)

Part No.	Mfr. Part No.	Description	1	5
262705	850D	SMD rework	\$299.95	\$269.95
262810	A1135B	PLCC 17.5 x 17.5	29.95	25.95
262959	A1136B	PLCC 20 x 20	45.95	39.95
262967	A1138B	PLCC 30 x 30	45.95	39.95
262895	A1125B	QFP 10 x 10	29.95	25.95
262908	A1126B	QFP 14 x 14	29.95	25.95
262916	A1127B	QFP 17.5 x 17.5	29.95	25.95
262852	A1261B	QFP 20 x 20	45.95	39.95
262844	A1182B	BQFP 24 x 24	45.95	39.95
262801	A1129B	QFP 28 x 28	45.95	39.95
262887	A1265B	QFP 32 x 32	69.95	65.95
262932	A1258B	SOP 7.6 x 12.7	29.95	25.95
262941	A1260B	SOP 8.6 x 18	29.95	25.95
262975	A1259B	SOP 13 x 28	45.95	39.95

## 40-Watt SMD Rework Station

- Long-life ceramic heating element
  - High-performance, inexpensive, versatile
  - Adjustable temp.: 250-450°C (482-842°F)
  - Rapid heat-up and recovery
  - Thermocouple sensor for stable temperature
  - Size: 7.4"L x 5.0"W x 3.3"H
  - 40W station, 25W ceramic element • Weight: 2.6 lbs
- Includes:** Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers



\* Web Code: NAT

Part No.	Description	1	5	25
224629	Rework station	\$89.95	\$79.95	\$69.95
168583	.078" tip	9.95	8.95	7.95
168591	.590" tip	11.95	10.95	9.95

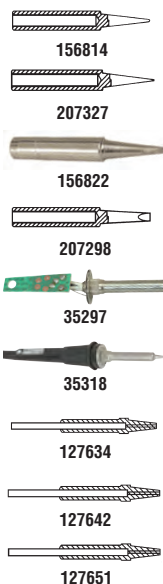
RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Tips & Replacement Parts for XYTronic Soldering and Desoldering Products

*Web Code: NAB			For XYTronic Model Numbers (*Legacy Models)											Pricing		
Part No.	Mfr. P/N	Description	230V	100V	200V	375V	450V	500V	500V	500V	500V	500V	500V	1	10	25
35326	XY401	Soldering tip - conical bevel 1/32"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$4.49	\$3.95	\$3.59
35078	XY402	Soldering tip - semi-chisel 1/32"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4.49	3.95	3.59
35334	XY403	Soldering tip - conical sharp 1/64"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4.49	3.95	3.59
35115	XY404	Soldering tip - conical chisel 1/16"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4.49	3.95	3.59
35238	XY405	Soldering tip - semi-chisel wide 1/8"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4.49	3.95	2.95
207335	XY406	Soldering tip - long conical chisel 3/64"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4.49	3.95	2.95
207351	XY410	Soldering tip - chisel 3/16"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4.49	3.95	3.59
140231	XY430	Soldering tip - SMD flat pack 7/32"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6.95	5.95	4.95
156814	XYB01	Soldering tip - sharp conical chisel 1/32"		✓			✓							3.95	3.49	2.95
207327	XYB03	Soldering tip - conical sharp 1/64"		✓			✓							5.95	5.49	4.95
156822	XYB04	Soldering tip - conical sharp 1/16"		✓			✓							3.95	3.49	2.95
207298	XYB05	Soldering tip - semi-wide chisel 1/8"		✓			✓							4.49	3.95	3.59
35297	XY37	Heating element - (nichrome)		✓	✓		✓				✓		✓	12.95	11.95	10.95
35318	XY48	Assembly - 60W w/ nichrome heater		✓	✓		✓				✓		✓	29.95	26.95	23.95
127634	XYD10	Desoldering tip - 1.0mm (.0394")						✓		✓				8.95	7.95	6.95
127642	XYD12	Desoldering tip - 1.2mm (.0472")						✓		✓				8.95	7.95	6.95
127651	XYD15	Desoldering tip - 1.5mm (.0586")						✓		✓				8.95	7.95	6.95



### Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6"
- Weight: 2.0 lbs.



Part No.	Description	1	5	25
169551	Spool & iron stand	\$10.95	\$9.95	\$8.95

\*Solder Spools — Enter Web Code YAU

### 600-Watt Solder Pot

#### Temperature Adjustable

- 2-wire power cord (5'")
- Temperature: 0°C to 500°C
- Self-regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057 or 170465, pg 166
- Size (unit): 6.8"L x 5.5"W x 2.8"H
- Size (tub): 3.9"L x 1.6"D
- Weight: 7.4 lbs.



Part No.	Description	1	5
172276	600W solder pot	\$199.95	\$179.95

### 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057 or 170465, pg 166
- 3 conductor pigtail power cord: 5'L
- Input volt.: 110VAC @ 18A, 50-60Hz single phase
- Size (unit): 18.1"L x 11.5"W x 6.0"H
- Size (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs.
- One-year warranty



Part No.	Description	1	5
149876	2000 Watt solder pot	\$359.95	\$299.95

### 22-Watt Fume Extractor

#### Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air
- Static ground jack • Fuse protected
- Air flow: 115 CFM • Noise: 49dB fan
- 20VAC, 60Hz, 22 watt
- Aerodynamic hood design for effective removal of solder fumes
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs.
- One-year warranty



Part No.	Description	1	5	25
120150	Fume extractor	\$49.95	\$45.95	\$39.95
127183	Replace. filters (2/pk)	9.95	8.95	7.95

\*Fume Extractors — Enter Web Code HAR

### Weller® 20-Watt Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.



- Voltage: 120VAC
- Sound level: 45-50dB
- Air consumption: 87-107CFM
- Power consumption: 20W
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- ESD safe
- UL/CUL listed
- Size: 10"L x 6.5"W x 11"H
- Weight: 4.2 lbs.

Part No.	Mfr. Part No.	1	5
684810	WSA350	\$59.95	\$54.95
684828	WSA350F (carbon filter)	7.95	6.95

### 42-Watt Combination Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D
- Weight: 5.2 lbs.



**Includes:** Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Mfr. Part No.	1	5
183169	456DLX	\$89.95	\$69.95

### Fume Extractor Filters

- For use with GS-630A
- 3-pack carbon filters • Size: 5" x 5"



Part No.	Description	1	5	25
672579	Replacement filters	\$9.95	\$8.95	\$7.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## Vacuum Base Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up • Weight: 3.3 lbs.
- Nylon jaws open 2.25"
- Size: 5.0"L x 4.0"W x 6.3"H
- One-year warranty



\* Web Code: TAD

Part No.	Mfr.	Product No.	1	5
262116	ValuePro	GV-300	\$39.95	\$35.95
27131	PanaVise	M381	59.95	57.95

## Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base



Part No.	Description	Wt. (lbs.)	Size	1	5
72865	With holder/sponge	1.4	2.0"	\$8.95	\$7.95
681002	With holder/sponge	1.7	3.5"	8.95	7.95
26690	Third hand	1.4	2.0"	5.95	5.49

## Angled Bottle

An 8 oz. squeeze bottle made of polyethylene plastic that is ESD safe. Nozzle is angled making it easier for application in tight places.

NEW  
MARKED IN PINK



Part No.	Product No.	1	10
667471	RD-7827B	\$6.95	\$6.19

## Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No.	Product No.	1	10	100
159126	HT156	\$2.95	\$2.59	\$2.29

## Acid Brush

- Used for application of reactive solvents



Part No.	Description	1	10	100
153322	Metal handle, 6" L	\$0.65	\$0.55	\$0.45

## Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



Part No.	Mfr.	Part No.	1	10	100
158131	450		\$9.95	\$8.95	\$7.95

## Heat Sink & Soldering Aid Kit



**100378:** Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts  
**100503 Includes:** Soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	100
100378	Heat sink	\$0.49	\$0.45	\$0.39
100503	7-piece soldering kit	6.95	6.29	5.49

## Clamp Vise

\* Web Code: TAD

- No tools needed — finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W



• Weight: 2.1 lbs.

Part No.	Mfr.	Part No.	1	5
127167	OR-307		\$19.95	\$17.95

## PANA VISE PV Jr. Vise

- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8" • Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts



Part No.	Mfr.	Part No.	1	5
134439	PVJR 201		\$26.95	\$24.95

## Rapid Assembly Circuit Board Holder

- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently
- 10" high (from base to top of vertical shaft)

PANA VISE



Part No.	Mfr.	Part No.	Weight	1	5
684844	333		6.4 lbs.	\$79.95	\$75.95

## PANA VISE Electronic Work Center

- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty



Part No.	Mfr.	Part No.	1	5
27060	324		\$89.95	\$79.95

## PANA VISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"



Part No.	Mfr.	Part No.	1	5
684852	350		\$89.95	\$84.95

## PANA VISE Vacuum Base Vise

- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/course adjustment
- Jaw size: 2"H x 1"W • Base dia.: 3.4"
- Overall height: 7.5"H • Weight: 0.8 lbs.



Part No.	Mfr.	Part No.	1	5
251791	209		\$39.95	\$35.95

## Solder Bars, Rolls and Pocket Packs

\* Web Code: ABD

Part No.	Manufacturer	% Composition					Dia.	L"	Wt. (lbs.)	Type†	Pricing	
		Tin	Lead	Silver	Copper	Gold					1	10
73576	Kester	60	40	—	—	—	0.031"	—	0.5	2	\$3.25	\$2.95
32117	Kester	60	40	0	—	—	0.031"	—	1.0	1	25.95	22.95
141786	Super	60	40	0	—	—	0.031"	—	1.1	1	19.95	17.95
94570	Kester	60	40	—	—	—	0.05"	—	1.3	2	3.49	3.19
176057	ValuePro	60	40	—	—	—	—	13	1.1	4	20.95	18.95
73605	Kester	62	36	2	—	—	0.02"	—	0.35	2	3.79	3.39
151474	Kester*	63	37	0	—	—	0.031"	—	1.0	1	27.95	24.95
115433	Kester	63	37	0	—	—	0.039"	—	0.07	3	.99	.85
170465	ValuePro	63	37	—	—	—	—	13	1.8	4	19.95	18.95
668262	ValuePro	96.3	—	3.2	0.5	—	0.04"	—	0.6	1	25.95	23.95
668297	ValuePro	96.3	—	3.2	0.5	—	0.04"	—	1.1	1	49.95	44.95
1945858	Various	96.5	—	3.0	0.5	—	0.02"	—	1.1	1	27.95	25.95
668271	ValuePro	96.5	—	3.5	—	—	0.04"	—	0.6	1	29.95	26.95
668318	ValuePro	96.5	—	3.5	—	—	0.04"	—	1.1	1	59.95	54.95
668422	ValuePro	96.5	—	—	—	3.5	—	13	2.2	4	69.95	65.95
170457	Various	99.3	—	—	0.7	—	0.031"	—	0.06	2	2.49	2.25
209075	Various	99.3	—	—	0.7	—	0.31"	—	1.0	1	19.95	18.95
668078	ValuePro	99.3	—	—	0.7	—	0.04"	—	0.6	1	15.95	13.95
668406	ValuePro	99.3	—	—	0.7	—	—	13	2.2	4	49.95	47.95

\* Organic core † 1. Roll 2. Packet 3. Coil 4. Bar

## 5' Desolder Braids

\* Web Code: DAG

Part No.	Mfr.	Mfr. Part No.	Description	W"	1	10
139951	Techspray	1814-5F	No-Clean, Military & NASA certified	.030	\$3.59	\$3.29
124126	Techspray	1815-5F	No-Clean, Military & NASA certified	.055	3.59	3.29
124118	Techspray	1816-5F	No-Clean, Military & NASA certified	.075	3.59	3.29
263708	Techspray	1817-5F	No-Clean, Military & NASA certified	.098	3.95	3.59
263695	Techspray	1803-5F	Pro Wick, Pure Rosin	.075	2.95	2.59
263599	Techspray	1804-5F	Pro Wick, Pure Rosin	.098	3.29	2.95
263581	Techspray	1511-5F	Pro Wick, Pure Rosin with bobbin	.098	3.29	2.95
41082	ValuePro	GISW20	Solder wick braids	.079	1.89	1.69
41100	ValuePro	GISW25	Solder wick braids	.098	1.99	1.79
153462	ValuePro	GSR104D	Solder wick braids	.120	2.25	1.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Workshop Chemicals & Heat Sinks Compounds

\* Shipped via UPS ground to continental U.S. only

Part No.	Manufacturer	Description	Vol. (oz.)	1	10
615769	GC Electronics	Adhesive, sealant, silicon, one part, non corrosive, clear	3	\$7.95	\$6.95
645845	3M	Super adhesive, household glue #6004*	1	4.95	4.49
139900	Techspray	Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*	8	9.95	8.95
263530	Techspray	Air duster, Envi-Ro-Tech, acusol, 100% HCFC, non-flammable, w/ trigger*	12	13.95	12.95
2094207	Caig	Air duster, non-flammable, moisture free, non-ozone depleting, no VOC*	10	6.95	6.49
2094231	Caig	Cleaner wash, contact evaporates quickly, safe on plastics*	10	7.95	6.95
118033	Techspray	Cleaner, contact, ECONOLINE, CFC free, aerosol can*	13.5	10.95	9.95
2094223	Caig	Cleaner, contact, slow dry, chemically improves metal electronic connections*	0.5	9.95	8.95
195004	Caig	Cleaner, contact dioxidizer & preservative, improves electronic connections*	5	16.95	—
2094215	Caig	Cleaner & conditioner, soldering tip*	0.5	8.95	7.95
616331	GC Electronics	Conductive paint, silver print II*	0.5**	49.95	44.95
263716	Techspray	Conductive pen, silver ink*	0.17	19.95	18.95
616411	GC Electronics	Developer, positive type, concentrate, dilute 9:1*	6	10.95	9.95
616438	GC Electronics	Etching solution, PC board, ferric chloride solution*	32	24.95	22.45
616446	GC Electronics	Etching solution, PC board, ferric chloride solution*	128	49.95	44.95
139934	Techspray	Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free*	8	12.95	11.95
652210	3M	Glue tip, scotch-weld tapered mixer tip #4902 for 2 part glue	—	1.49	1.25
615347	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	1†	8.49	7.69
615355	GC Electronics	Heat sink compound, 100% synthetic base stocks type 44	16†	39.95	35.95
1582541	Wakefield	Heat sink compound, silicon based	8†	26.95	24.49
236823	Various	Heat sink compound, silicon based grease	0.35†	4.95	4.49
167249	Aavid Thermalloy	Heat sink compound, silicon based grease*	2†	8.95	7.95
169252	Techspray	Heat sink compound, silicon free	4†	25.95	23.95
259151	NTE	Heat sink compound, white gel, thermal grease 5 pack	0.35†	1.95	1.75
615304	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	16†	29.95	26.95
615312	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	0.23†	2.95	2.65
615321	GC Electronics	Heat sink compound, zinc oxide-filled silicon grease	1†	7.95	7.25
263572	Techspray	Isopropyl alcohol, plastic bottle*	16	12.95	10.95
2094240	Caig	DeoxIT® SHIELD SN5 Spray Lubricant & protectant, for electrical connections*	0.5	9.95	8.95
645950	3M	Mask, home dust (5-pack), offers relief from common household dust	—	4.49	3.95
645968	3M	Mask, respirator, recommend for use w/ fiberglass insulation/drywall sanding	—	6.95	6.29
481730	Techspray	Smoke detector test spray*	2	5.95	5.49
615806	GC Electronics	Solder flux remover & cleaner II, non ODC, aerosol can*	16	9.95	8.95
118041	Techspray	Solder flux remover, ECONOLINE, CFC free, aerosol can*	13.5	11.95	10.95
481764	Techspray	Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue*	0.38	6.95	6.49
615224	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	2	8.95	7.95
615232	GC Electronics	Solder flux, liquid, non corrosive, solution of special rosin in alcohol*	16	24.95	22.45
615494	GC Electronics	Solder flux, paste, strong flux for soldering sheet metal & pipes, not for PCBs*	2.29	9.95	8.95
2094258	Caig	Solder flux, rosin paste for electronic applications including PCBs*	2	8.95	7.95
525835	Chemtronics	Solder mask, peelable, latex material, squeeze bottle*	8	14.95	12.95
525851	Chemtronics	Cotton swabs, double headed, 6" handle, 100-pack	—	4.95	4.49

\*\*TroyOunces †Heat sink compound measured by weight

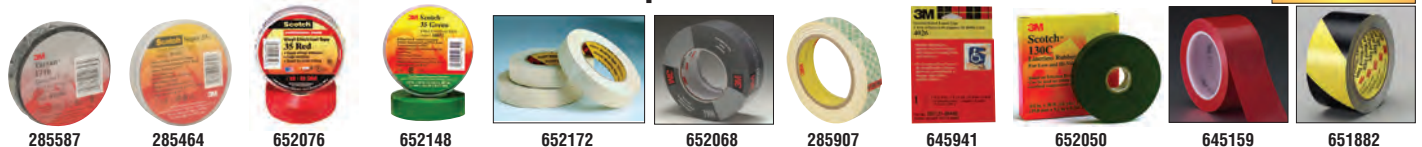


\* Workshop Chemicals — Enter Web Code YAQ

\* Heat Sink Compounds — Enter Web Code YBA

## Tape Products

\* Web Code: TPS



Part No.	Manufacturer	Description	Color	Width (inches)	Length (yards)	Thickness (inches)	1	10	50
285587	3M	Vinyl electrical tape, Tartan 1710, UL	Black	.75	20	.0070	\$1.09	\$9.99	\$89
285464	3M	Vinyl electrical tape, Super 33+, UL	Black	.75	20	.0070	4.95	4.79	4.49
652076	3M	Vinyl electrical tape, Super 35, UL	Red	.75	22	.0070	4.95	4.79	4.49
652092	3M	Vinyl electrical tape, Super 35, UL	Violet	.75	22	.0070	4.95	4.79	4.49
652105	3M	Vinyl electrical tape, Super 35, UL	White	.75	22	.0070	4.95	4.79	4.49
652113	3M	Vinyl electrical tape, Super 35, UL	Brown	.75	22	.0070	4.95	4.79	4.49
652130	3M	Vinyl electrical tape, Super 35, UL	Blue	.75	22	.0070	4.95	4.79	4.49
652148	3M	Vinyl electrical tape, Super 35, UL	Green	.75	22	.0070	4.95	4.79	4.49
652156	3M	Vinyl electrical tape, Super 35, UL	Yellow	.75	22	.0070	4.95	4.79	4.49
652172	3M	General purpose masking tape, Scotch	Tan	.95	60	.0060	4.95	4.79	4.49
652068	3M	Duct tape 3900, economy grade	Silver	2.0	60	.0077	9.95	8.95	7.95
285907	3M	Double sided foam tape	White	1.0	4	.1250	14.95	13.95	12.95
645941	3M	Double sided foam tape	White	1.0	6	.0625	13.95	12.95	11.95
652050	3M	Rubber splicing tape, 130C linerless	Black	.75	10	.0300	15.95	13.49	12.95
645159	3M	Vinyl tape, clean removal	Red	2.0	36	.0051	27.95	24.95	22.49
651882	3M	Safety stripe tape	Yellow/Black	2.0	36	.0050	37.95	35.49	32.95

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





## Solderless Breadboards



The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77682 (below).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty

**Attention Educators! Buy jumper wire on pg 169 in bulk and SAVE! (see Solid Hook-up Wire on page 57)**



20670



20758



20812

### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, pg 169)
- Some models feature heavy-duty aluminum backings (20758, 136901, 20812)

**\* Web Code: HAC**

Part No.	Cross Ref. No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing			
									1	5	50	100
94457	JE19A	0	1	100	0	6.5 x 0.4	—	0.04	\$3.95	\$3.59	\$3.29	\$2.95
20601	JE21A	1	2	400	0	3.3 x 2.1	—	0.13	5.95	5.49	4.95	4.49
20670	JE22A	1	0	630	0	6.5 x 1.4	—	0.20	6.95	6.29	5.49	4.95
194299	JE37A	1	2	640	0	6.9 x 2.4	—	0.25	8.95	7.95	6.95	5.95
20723	JE23A	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.95	8.95	7.95	6.95
194272	JE34A	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	18.95	16.95	14.95	12.95
20758	JE24A	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	14.95	13.49	11.95	10.95
136901	WBU504†	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	19.95	17.95	15.95	13.95
20774	JE25A	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	20.95	18.95	16.95	14.95
20791	JE26A	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.95	24.95	21.95	19.95
20812	JE27A	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.95	29.95	26.95	24.95

† WBU5 and JE series do not interconnect

### Breadboard Pin to Breadboard Pin Test Leads

Part No.	Description	1	5	50
421315	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 24 AWG wire, 5.9" wire length (150mm)	\$9.95	\$8.95	\$7.95

## Digital Design Lab

- 1580 tie points
- Fixed power supply: ±5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- DCV digital multimeter
- One-year warranty

**\* Web Code: LAJ**

**Our most popular digital lab!**



**International 115/220VAC Switchable**

### Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
- Sine wave output: 0–8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed

**Includes:** Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
75839	Digital lab	10.6 x 13.3 x 5.0	8.1	\$399.95	\$379.95
1952599	Replacement breadboard	4.5 x 6.75 x 0.37	0.5	29.95	26.95

## AC/DC Power Supply

**Ideal for Breadboards on above**

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in & start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 154
- Size: 7.4"W x 5.5"D x 2.6"H
- Weight: 5.5 lbs.
- Color: beige
- One-year warranty

Part No.	Description	1	5
77682	Power supply	\$165.95	\$149.95



**International 120/220VAC Switchable**

**Output Specifications:**  
 +5VDC @ 1A;  
 -5V @ 300mA fixed;  
 0 to +15VDC @ 500mA variable;  
 0 to -15VDC @ 300mA variable;  
 12-0-6-6-12 tapped VAC,  
 300mA fixed

## Digital/Analog Design Labs

### Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to +15V & 0 to -15V @ 500mA (P/N 136267) 0 to +15V & 0 to -15V @ 1A (P/N 1919211)

- Input power: 110/220VAC @ 50-60Hz (switchable)

- **Function Generator** • Frequency ranges: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz

- Sine & square wave output: 0–8 Vpp variable
- Triangle wave output: 0–6 Vpp variable

- TTL mode output: 5Vpp (P/N 1919211 only)

### Other features

- 2.5" dia. 8Ω, 25W speaker
- 2 banana sockets, 2 BNC jacks
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")

### 136267:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 8 data switches
- 8-bit red LEDs with separate input terminals
- One-year warranty
- 1919211: • 16 bit data switches w/ corresponding output points
- 16 red LEDs w/ separate input terminals

**Includes:** Power cord and manual (both P/Ns 136267 & 1919211); jumper wires (P/N 1919211 only)

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	5
136267	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$399.95	\$359.95
1919211	Digital/analog lab	13.0" x 10.5" x 3.5"	9.1	459.95	399.95
319214	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	24.95	21.95

## The Best Warranty in the Industry

**All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.**



## Powered Project Breadboards

- Solderless breadboard with 2420 tie points
- Power switch with light • Outputs are short-circuit protected
- Includes:** Power cord
- 136259:**
  - Fixed power: +5V @ 1A; variable power: 0 to ±15VDC @ 500mA
  - Edge plate for non-DIP size components
  - Input power: 120/220VAC @ 50-60Hz (switchable)
  - Replacement fuse: P/N 103908, pg 40

\*Web Code: XAT



136259

- 1537264:**
  - Fixed power: +5V @ 1A; variable power: 0 to ±16VDC @ 300mA
  - Front panel has color coded terminals for DC output power supply, adjustable knobs & ground terminal
  - Input voltage: 110/220VAC @ 50-60Hz switchable
- 1942163:**
  - Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
  - Triple output power supply: fixed 5VDC @ 1A; 0 to +16VDC @ 500mA (adjustable); 0 to -16VDC @ 500mA (adjustable)
  - Grounded case
  - Fuse protection

- One-year warranty
- Breadboard size: 7.4"L x 6.8"W
- Back panel has ground terminal
- Breadboard size: 5.8"W x 6.5"L
- Fuse protection
- Overload protection
- Lighted power switch



1942163

Part No.	Description	Overall Size	Wt. (lbs.)	1	5
136259	15VDC @ 500mA	9.8"L x 8.0"W x 2.6"H	6.8	\$175.95	\$159.95
1537264	16VDC @ 300mA	10.0"L x 7.8"W x 2.4"H	6.8	89.95	69.95
1942163	5VDC @ 1A & 16VDC @ 500mA	10.3"L x 8.8"W x 3.3"H	6.0	99.95	89.95

## Wire Jumper Kit (350 pcs.)

- 25 each 0.1" to 5.0" lengths (14 sizes)
- Pre-stripped/preformed 22 AWG solid wire jumpers
- Clear plastic durable case
- 350 assorted lengths in 13 colors



\*Web Code: LAS

**20080:** 350-piece refill for 19290

Part No.	Description	1	10	50	100
19290	Wire jumper kit	\$16.95	\$14.95	\$12.95	\$10.95
20080	Refill for 19290	11.95	10.95	8.95	6.95

## Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



\*Web Code: LAS

Part No.	Cross Ref. No.	Length (mm/inch)	1	10	100
126360	JW50	50/1.97	\$3.95	\$3.59	\$3.19
126342	JW100	100/3.94	5.95	5.39	4.95
126325	JW200	200/7.87	6.95	6.29	5.49

## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D • Wt: 0.7 lbs.



211668

- 211668:** 1% resistance substitution from 1Ω to 11.1111110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments • @ 3 watts



211676

- 211676:** 5% capacitance substitution from 100pF to 11.111μF
- 5 decade ranges of capacitance
- @ 50VDC

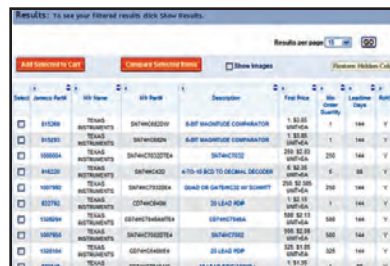
Part No.	Description	1	5
211668	Resistance	\$99.95	\$89.95
211676	Capacitance	129.95	119.95

## Stackable Banana Test Lead Cables

\*Web Code: TLC



Part No.	Mfr. P/N	Description	1	10	25
159901	B-24-02	(2) 24" leads ...	\$9.95	\$8.95	\$8.29
159919	B-36-02	(2) 36" leads ...	10.95	9.95	8.95



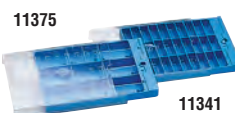
## More Information Online

Compare products online to quickly find the products you want with the specifications and real time product availability. Purchasing products has never been easier.

[www.Jameco.com](http://www.Jameco.com)

## Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332, below)
- Box size: 4.9"L x 3.3"W x 0.6"H
- Color: blue



11375

11341

**11341:** Stores sixty 8-pin or thirty 16-pin DIPs

**11375:** Designed to store all types of components

Part No.	Description	1	10	100
11341	30 compartments	\$5.95	\$5.49	\$4.95
11375	3 compart./3 vertical & 3 horizontal dividers	5.95	5.49	4.95

## Bug Tray

- Fits in bug cage (P/N 11332, below)
- 10 compartments
- 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H



Part No.	Description	Color	1	10	100
11800	Divided bug tray	Blue	\$4.95	\$4.49	\$3.95

## Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Case size: 5.0"L x 3.9"W x 5.1"H



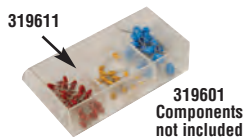
Boxes/Trays not included

Part No.	Description	Color	1	10	100
11332	Bug cage	Blue	\$8.95	\$7.95	\$6.95

## Component Cabinet



319600



319601 Components not included

**Drawer (319601) Divider (319611)**

- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H

**Includes:** 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

**319601:** 5.5"L x 2.7"W x 1.5"H; **319611:** 2.5"W x 1.2"H

\* Order in multiples of 10

Part No.	Description	1	10	100
319600	Component cabinet	\$16.95	\$15.49	\$13.95
319601	Drawer for cabinet	.49	.45	.39
319611	Divider for cabinet	*	.12	.10

## Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100256:** Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)
- 148902:** Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)



100256

Part No.	Description	1	10	100
100256	18 compartments	\$2.29	\$1.95	\$1.79
148902	12 compartments	3.95	3.49	2.95

## Plastic Fliptop Case for SMDs

- 128 compartments
- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156882 SMD resistor assortment, pg 44
- Size: 11.0"L x 8.3"W x 1.7"Thick • Color: gray



164267

Part No.	Description	1	10
164267	SMD fliptop case	\$49.95	\$44.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

SERPAC

## Specialty Enclosures

\* Web Code: TBY

## A Series — with PCB Boss Mounts

- 4-piece design • Interchangeable end panel • 4-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
373456	A-42-BK	Black	None	7.12 x 5.00 x 1.62	\$14.49	\$12.95	\$11.49
373608	A-42-9V-BK	Black	1-9V	7.12 x 5.00 x 1.62	16.95	15.49	13.95

## H Series — Handheld with Built-in Battery Holder

- Ergonomic handheld design • 5-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
374483	H-45-AAA-BK	Black	2-AAA	3.90 x 2.20 x 0.94	\$7.95	\$7.29	\$6.49
694621	H-65-TR-GY	Gray	None	4.94 x 2.75 x 0.94	15.95	14.49	12.95
374512	H-65-AA-BK	Black	2-AA	4.94 x 2.75 x 0.94	8.95	7.95	6.95
374635	H-65-9V-BK	Black	1-9V	4.94 x 2.75 x 0.94	8.95	7.95	6.95
675323	H-67-BK	Black	None	4.94 x 2.75 x 1.28	8.95	7.95	6.95
374942	H-67-9V-BK	Black	1-9V	4.94 x 2.75 x 1.28	8.95	7.95	6.95
374601	H-75-4AA-BK	Black	4-AA	7.20 x 3.65 x 1.20	13.95	12.49	11.95

## S Series — Two-piece Standard Enclosures

- 2-piece design • 2-insert areas for customized I-plates

† Insert on top is recessed 0.015" on all models designated with an "I"

Part No.	Mfr. Part No.	Color	Batt. Holder	Size (L" x W" x H")	1	10	100
675454	110-I-BK	Black	None	3.61 x 2.27 x 1.01	\$3.49	\$2.95	\$2.49
675462	111-BK	Black	None	3.61 x 2.27 x 1.51	4.49	3.95	3.49
675489	131-BK	Black	None	4.38 x 3.25 x 1.51	5.95	5.49	4.95
675569	211-BK	Black	1-9V	4.10 x 2.60 x 1.51	5.49	4.95	4.49
675577	231-BK	Black	1-9V	4.38 x 3.25 x 1.51	6.49	5.95	5.49
675497	133-BK	Black	None	4.38 x 3.25 x 2.51	5.95	5.49	4.95
675500	151-BK	Black	None	5.63 x 3.25 x 1.51	5.99	5.49	4.95
675593	251-BK	Black	1-9V	5.63 x 3.25 x 1.51	7.95	7.29	6.49
675518	153-BK	Black	None	5.63 x 3.25 x 2.51	7.95	7.29	6.49
675526	171-BK	Black	None	6.88 x 4.88 x 1.51	9.95	8.95	7.95
675534	172-BK	Black	None	6.88 x 4.88 x 2.01	10.95	9.95	8.95
675542	173-BK	Black	None	6.88 x 4.88 x 2.51	10.95	9.95	8.95
675551	193-BK	Black	None	9.50 x 6.34 x 2.51	15.95	13.49	11.95

Please Note: Images used are representative. Color and shapes may vary by model.

JAMECO ValuePro

The prototype builder boards on pg 171 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 171 (P/N 106551).

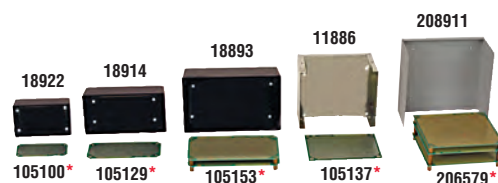
**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 46 for Knobs and 106 Hardware

## Enclosures

JAMECO EXCLUSIVE

\* Web Code: UAL



\*All boards sold separately, see pg 171; multiple boards shown

## ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

Part No.	Product No.	Size (L x W x D)	1	10	50	100
18922	H2855	3.1" x 2.0" x 0.9"	\$3.49	\$3.19	\$2.89	\$2.49
18914	H2853	4.9" x 2.5" x 1.5"	4.49	3.95	3.49	2.95
18893	H2851	6.0" x 3.5" x 1.9"	4.95	4.49	3.95	3.49
18906	H2852	7.5" x 4.3" x 2.3"	7.49	6.79	5.95	5.49

## Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	\$5.95	\$5.49	\$4.95	\$4.49
11965	B5004	4.7" x 2.4" x 1.6"	8.95	8.29	7.49	6.59
11973	B5006	7.5" x 4.3" x 2.4"	15.95	14.49	12.95	11.49

## Aluminum Enclosures

The enclosure comes in two pieces which slide together.

Part No.	Product No.	Size (L x W x D)	1	10	50	100
11870	H2300	4.0" x 2.0" x 2.8"	\$5.95	\$5.49	\$4.95	\$3.95
11886	H2320	5.0" x 4.0" x 3.0"	8.95	7.95	6.95	5.95
11894	H2335	7.0" x 6.2" x 4.6"	9.95	8.95	7.95	6.95

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

## C Series — with Pinch-Fit for PCBs

- Simple 2-piece design • 2-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675331	C-4-BK	Black	2.13 x 1.38 x 0.58	\$2.95	\$2.69	\$2.39
675366	C-8-BK	Black	2.40 x 1.85 x 0.93	2.95	2.39	2.39
694567	C-8-TR-RD	Red	2.40 x 1.85 x 0.93	4.95	3.95	3.95
675374	C-10-BK	Black	3.25 x 2.30 x 0.80	2.95	2.39	2.39
675382	C-12-BK	Black	3.75 x 2.40 x 1.00	3.95	3.49	2.95

## M Series — Handheld with Built-in Battery Holder

\* Translucent

- Streamlined handheld design • 5-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675438	M-6-BK	Black	4.15 x 2.40 x 0.85	\$8.95	\$7.95	\$6.95
694815	M-6-TR-GY	Gray*	4.15 x 2.40 x 0.85	13.49	11.95	10.49
694807	M-6-TR-GR	Green*	4.15 x 2.40 x 0.85	14.95	13.49	11.95

## SL Series — Sloped Top Enclosures

- Slanted top • 2-insert areas for customized I-plates

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
694698	05-SW-BK	Black	5.63 x 3.25 x 0.91	\$5.95	\$5.49	\$4.95
694680	27-S-BK	Black	6.88 x 4.88 x 2.49	11.95	10.49	9.45

## R Series — Waterproof Cases to 30 Feet

- Dustproof, corrosion proof, airtight and UV protected with lifetime guarantee
- Auto pressure purge valve, secure lock holes, nut & bolt security & foam-filled

Part No.	Mfr. Part No.	Color	Size (L" x W" x H")	1	10	100
675614	R-120F	Black	7.6 x 5.0 x 2.2	\$19.95	\$17.95	\$15.95
675622	R-300F	Black	9.59 x 7.42 x 3.98	44.95	39.95	35.95

## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
208901	B2741A	4.0" x 3.3" x 2.2"	\$5.95	\$5.49	\$4.95	\$4.49
208911	B2743A	5.9" x 5.3" x 3.0"	8.95	8.29	7.39	6.59
208929	B2744A	7.3" x 6.3" x 2.8"	9.95	8.95	7.95	6.95
209350	B2746A	6.3" x 7.8" x 2.5"	11.95	9.95	8.95	7.95
209358	B2747A	7.5" x 9.8" x 3.2"	14.95	13.49	11.95	10.95

## ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

Part No.	Product No.	Size (L x W x D)	1	10	50	100
18869	H2505	7.9" x 6.3" x 2.5"	\$7.95	\$7.29	\$6.59	\$5.95
18877	H2507	10.0" x 7.5" x 3.1"	8.95	7.95	7.49	6.95

## ABS Enclosures w/ Clear Tops

Includes screws for mounting boards, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref. No.	Size (L x W x D)	1	10	50	100
141832	203C1	4.9" x 3.4" x 2.4"	\$8.95	\$7.95	\$7.49	\$6.95
141841	203D1	6.5" x 3.4" x 2.2"	9.95	8.95	8.49	7.95
141859	203F1	7.3" x 5.7" x 3.0"	11.95	10.95	9.95	8.95





## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

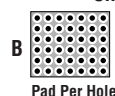
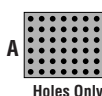
- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

**\*Web Code: LAG**

See PCB enclosures on pg 170, and mounting hardware (recommend P/N 106551) below



### Circuit Patterns



Part No.	Cross Ref. Number	Size (W" x L")	Fits Enclosure(s) (see page 170)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105102	5002PCB	1.50 x 3.50	11957	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	\$6.95	\$5.95	\$4.95	\$3.95
105100	2855PCB	1.60 x 2.70	18922	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	5.49	4.95	4.49	3.95
105129	2853PCB	2.00 x 4.40	18914, 11965	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	8.49	7.59	6.75	5.95
105111	2300PCB	2.40 x 3.40	11870	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	7.19	6.49	5.95
263207	PCB-463	2.40 x 4.10	—	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
28178	PCB1	2.42 x 4.10	—	C	Plated through	674 x .040"	None	None	4 x .120"	.04	6.95	6.25	5.59	4.95
263215	PCB-858	2.50 x 4.50	18914	D	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
105153	2851PCB	3.10 x 5.50	18893	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263223	PCB-69	3.30 x 3.70	—	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	7.95	6.95	5.95
105137	2320PCB	3.30 x 4.50	11886	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	8.95	7.95	6.95	5.95
105162	2852PCB	3.60 x 7.00	18906, 11973	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	13.95	12.49	10.95	9.95
21531	JE417	4.20 x 6.50	—	C	Plated through	2126 x .042"	2	D-sub 9/15/25/37	8 x .120"	.12	14.95	13.49	11.95	10.95
206587	2746APCB	4.30 x 6.80	209350	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	9.95	8.95	7.95	6.95
21435	JE401(8001)	4.50 x 6.50	18869	B/D	Single-sided	2360 x .042"	2	None	None	.12	16.95	15.49	13.95	11.95
21452	JE405(8003)	4.50 x 6.50	18869	C	Single-sided	2360 x .042"	1	None	None	.12	16.95	15.49	13.95	11.95
206579	2743APCB	4.60 x 4.30	208911	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.95	6.95	5.95	5.29
105180	2505PCB	5.00 x 6.50	18869	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	13.95	12.49	10.95	9.95
28194	PCB3	5.00 x 8.00	18877	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	23.95	21.49	19.95	18.95
21478	JE407(8006)	5.00 x 13.25	—	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	39.95	35.95	32.95	28.95
206594	2747APCB	5.50 x 8.00	209358	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	11.95	10.95	9.95	8.95
105187	2507PCB	6.10 x 8.80	18877	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	16.95	15.49	13.95	11.95
263232	PCB-7038	8.30 x 11.9	—	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	39.95	35.95	31.95	27.95

\* PC/XT 8-bit



## Vector Prototyping Boards

43140	64P44XXXP	4.50 x 6.50 #	18869	A	Drilled only	2860 x .042"	None	None	None	.09	\$8.95	\$8.49	\$7.95	\$7.49	
52943	84P44WE	4.50 x 8.50	18877	A	Drilled only	3740 x .042"	None	None	None	.15	12.95	12.45	11.95	11.49	
37612	169P44XXXP	4.50 x 17.0 #	—	A	Drilled only	7524 x .042"	None	None	None	.25	14.95	13.95	13.49	12.95	
37621	169P84WE	8.50 x 17.0	—	A	Drilled only	14,448 x .042"	None	None	None	.53	29.95	28.95	27.95	26.95	
106551	20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards (manufacturer may vary)											2.95	2.59	2.29	1.95

106551 20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards (manufacturer may vary)

# PCB material: phenolic

† All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below left)

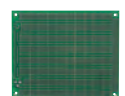
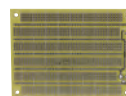
## PT Series Prototyping Boards

**\*Web Code: WCG**

Accommodates any mixture of 0.3" to 0.6" wide ICs with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101178 & 101186, pg 126)

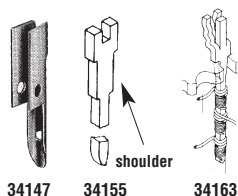
Part No.	Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	10	50
645677	PT-35X25	3.5"L x 2.5"W	Double-sided	456 x .036"	4 x .140"	\$16.95	\$14.95	\$12.95
262511	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	23.95	21.95	18.95
262537	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	29.95	26.95	23.95



## Wire Wrap and Push-In Terminals

### For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.
- 34147: Push-In Micro-Klip Terminals**
- Overall length: .36"
- Post size: .032" x .045"
- 34155: Miniwrap Wiring Terminals**
- Shoulder: .045"
- Overall length: .69"
- Post size: .025"Sq.
- Two-prong with square tail for wire wrapping
- 34163: Klipwrap Wiring Terminals**
- Overall length: .83"
- Post size: .025"Sq.
- Three-prong with square tail for wire wrapping



**\*Web Code: XCE**

Part No.	Mfr. Part No.	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147	T421	.200	.097	\$8.95	\$7.95
34155	T44	.065	.530	9.95	8.95
34163	T49	.200	.530	17.95	16.49

## DATAK Pre-Sensitized Circuit Boards & Chemicals

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"

Includes: Instructions

156751

Part No.	Product No.	Description	1	10	50
156751	14-034	Single sided	\$4.95	\$4.49	\$3.95
156742	14-234	Double-sided	5.95	5.49	4.95
156734	12-404*	4 oz. positive developer	14.95	13.49	11.95
70201	ER3*	Dry concentrated etchant (makes 1 pint) ...	5.95	5.49	4.95

\* Shipped via UPS ground – available continental U.S. only



## Positive Pre-Sensitized Circuit Boards

1 oz. copper on 1/16" epoxy glass board, UL94V-0 rated. The peel-off coating protects the board while handling or cutting prior to exposure.

Part No.	Product No.	Description	Size	1	10	50
616251	21-334	Single-sided	4" x 6"	\$5.95	\$5.49	\$4.95
616260	21-336	Single-sided	6" x 6"	7.95	7.29	6.49
616307	21-353	Double-sided	6" x 9"	13.95	12.95	11.95



# Circuit Boards & Prototype Boards

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN



## Prototype Boards

### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated. 0.1" centers.

Part No.	Product No.	Size	1	10	50
616631	22-504	3 1/8"W x 5 1/16"L x 1/16"Thick	\$4.95	\$4.59	\$4.29

### Experimenter's Phenolic Prototype Boards

616649:

- Copper plated with 94 five-point terminals and two 40-point bus strips

616673: • Single land pattern

Part No.	Product No.	Size	1	10	50
616649	22-508	2.0"W x 6.0"L x 1/16"Thick	\$8.95	\$7.95	\$6.95
616673	22-512	3 3/8"W x 6.75"L x 1/16"Thick	6.95	6.49	5.95

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

616681: 0.1" spacing

616690: 0.265" spacing

Part No.	Product No.	Size	Hole Dia.	1	10	50
616681	22-514	2.25"W x 6.0"L x 1/16"Thick	.093	\$8.49	\$7.95	\$7.39
616690	22-516	4.5"W x 6.0"L x 1/16"Thick	.042	5.95	5.49	4.95

### Versa Strip Phenolic Prototype Board

- Alpha-numeric indexing • 0.035" diameter holes
- Silver-plated land patterns • 0.1" centers

Part No.	Product No.	Size	1	10	50
616622	22-502	3.5"W x 6.0"L x 1/16"Thick	\$9.95	\$8.95	\$8.45

### Plug-In IC Phenolic Prototype Board

ICs plug directly into board. It's 0.1" spacing accepts 14-pin up to 20-pin ICs. Silver plated lands with 24-way card edge connector plug on one end. 0.035" diameter holes.

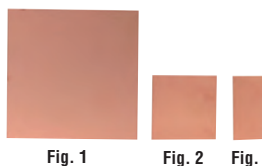
Part No.	Product No.	Size	1	10	50
616614	22-500	2.38"W x 4.0"L x 1/16"Thick	\$4.49	\$4.29	\$3.95



## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Both single and double-sided boards are copper plated.

- 1.6mm (1/16") thick
- PCB material: phenolic



Part No.	Cross Ref. No.	Description	Fig.	Size (L" x W")	1	10	50
169279	PCBS3X6	Single-sided	3	2.9 x 5.9	\$2.95	\$2.69	\$2.39
169288	PCBS6X6	Single-sided	2	5.9 x 5.9	3.95	3.49	2.95
169296	PCBS12X12	Single-sided	1	11.8 x 11.8	9.95	8.95	7.95
169309	PCBD3X6	Double-sided	3	2.9 x 5.9	3.49	2.95	2.49
169317	PCBD6X6	Double-sided	2	5.9 x 5.9	5.95	5.49	4.95
169325	PCBD12X12	Double-sided	1	11.8 x 11.8	19.95	17.95	15.95



## Bare Copper Circuit Boards – Single Sided

1 oz. copper on base of either fiberglass or reinforced epoxy board.

Part No.	Product No.	Size	1	10	50
616471	22-250	3" x 5" x 1/16"	\$3.95	\$3.59	\$3.29
616489	22-260	4" x 6" x 1/16"	4.49	3.95	3.49
616497	22-261	6" x 6" x 1/16"	4.95	4.49	3.95
616500	22-263	6" x 9" x 1/16"	5.95	5.49	4.95
616518	22-264	8" x 10" x 1/16"	9.95	8.95	7.95
616534	22-268	11" x 14" x 1/16"	17.95	16.95	15.95



**Need special orders or pricing?**  
**Call us at 1-800-831-4242**

BELLIN DYNAMIC SYSTEMS, INC.

## Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- V-groove scoring between elements for smooth straight edges
- Compatible with .100" single or dual row male headers (see pg 74)
- Board thickness: 0.031"
- Size: 7.6"L x 5.0"W
- Visit [www.Jameco.com](http://www.Jameco.com) for additional specifications

Application example using 215503



\* Web Code: HDS

### Small SMT

Part No.	Mfr. P/N	Board Description	1	10
215491	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	\$44.95	\$39.95
227344	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	44.95	39.95

### SOIC

215520	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$44.95	\$39.95
227310	B510	140 SMT pattern, SOIC 8 to DIP .300" width	44.95	39.95
227328	B511	63 SMT pattern, SOIC nrw/wd 8, 14, 16, 18, 20 to DIP .300"	44.95	39.95
227352	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	44.95	39.95
227361	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	44.95	39.95

### Fine Pitch Dual Row

215503	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more	\$44.95	\$39.95
227281	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	44.95	39.95
323889	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	44.95	39.95
681141	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28	44.95	39.95

### Quad

323918	B518	2 SMT 0.65mm or 0.8mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	\$44.95	\$39.95
323926	B519	2SMT 0.4mm or 0.5mm pitch, universal QFT adapter for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	39.95	34.95
336479	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	44.95	39.95
336487	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)	42.95	37.95
336508	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)	42.95	37.95
681150	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 4/8/12/16/24/28/32 pins	44.95	39.95

### PCB Connector (0.062" thick through-hole)

Part No.	Mfr. P/N	Description	Price
227272	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB connector	\$39.95

### PitchStick™

Part No.	Mfr. P/N	Description	Price
227299	B508	20 SMT pattern, 48 inline pads, metric/rare pitches	\$39.95
227301	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	39.95
681133	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches	39.95

Blue Part No. = Limited Quantity Available

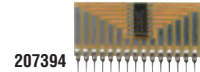
### Kit

Part No.	Mfr. P/N	Description	Price
681205	KIT-302	1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500	\$449.95



## Surfboards®

Mini Breadboards for Surface Mount Devices.



Part No.	Mfr. Part No.	Price	1	10
207360	9081 (For 8-pin SOIC)	\$1.49		\$1.19
207378	9082 (For 8-pin SOIC)	3.95		3.49
207386	9161 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H)	1.95		1.75
207394	9163 (For 14/16-pin SOIC; 0.1" pin spacing; 0.65"H)	5.95		4.95

### Application Specific Adapters

Part No.	Mfr. Part No.	Accepted Devices	Pins	1	10
207589	33205	SOT-23-5/SC59-5	5	\$1.75	\$1.59
207597	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	1.95	1.55

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.





## Prototyping Boards

SmartBoard™ is the only prototyping system that makes it possible for anyone to hand solder mount components. Whether SOIC, QFP, QFN or even BGA you can easily, flawlessly and quickly hand solder it.



1537580



1537635



1537660

• Size: 2" x 2" grid

### Thru Hole Board

Part No.	Mfr. Part No.	Description	1	5
1537580	201-0001-01	0.1" center spacing w/ 0.5 offset, 12 ground holes ...	\$7.95	\$6.95

### SO/SOP Board

Part No.	Mfr. Part No.	Description	1	5
1537635	202-004-01	4-56-pin SOIC w/ 0.05" pitch, 0603 and thru hole components, 12 ground holes	\$13.95	\$12.49

### QFP Board

Part No.	Mfr. Part No.	Description	1	5
1537660	202-0011-01	32-100 pins QFP, TQFP, PQFP w/ 0.5mm pitch .. & 0603 discrete, 6 ground holes	\$13.95	\$12.49

## PLCC Prototype Adapters

- PLCC socket slotted for PLCC chip remover
- Tin-plated PLCC connector
- Gold-plated round pins
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10



Part No.	Pins	Size (L x W)	1	5	25
73542	44	2.3" x 1.6"	\$13.95	\$12.49	\$11.95
73551	68	3.4" x 1.6"	17.95	15.95	13.95
73569	84	4.3" x 1.9"	19.95	17.95	15.95

## microEngineering Labs PICBasic & Pro Compilers

- Compatible w/most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows® (includes Windows® editor/DE software)
- I<sup>2</sup>C instructions to access external EEPROMs

### 132661: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Supports PIC12C67x, 14Cxxx, 16C55x, 66x, 7xx, 84, 92x, and 16CF8xx microcontrollers
- Serial speeds to 9600

### 150543: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
- MPLAB/MPASM/ICE compatibility
- Supports PIC12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx and 18Cxxx microcontrollers

Part No.	Mfr. Part No.	Description	1	5
132661	PBC	PICBasic compiler	\$89.95	\$79.95
150543	PBP	PICBasic Pro compiler	225.95	195.95

## microEngineering Labs Experimenter's Module Board

Provides an assembled test bed containing most of the circuitry commonly used with PIC microcontrollers. Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer and RC servo controller.

- 40-pin ZIF socket for PIC MCU (P/N 104030, below) and PIC16F877-20/P (P/N 176882, below)
- Reset button
- LED bargraph
- 2 lines x 20 characters LCD module
- Socket for I2C & SPI serial EEPROM, RS-485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector
- 16 switch keypad
- RS-232 interface
- Size: 5.5" x 5.6"
- Prototyping area for additional circuit
- 2 RC servo connectors
- 3 potentiometers
- Speaker
- One-year warranty

Requires: AC adapter (below)

Part No.	Description	1	5
169113	LAB-X1A experimenter board (assembled)	\$199.95	\$189.95
176882	PIC16F877-20/P microcontroller (pg 11)	5.65	5.45
127976	AC adapter (details on pg 120)	6.95	6.25
104030	40-pin ZIF socket (details on pg 83)	11.95	10.75



## microEngineering Labs "PICProto" Prototyping Boards

- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Large prototyping area
- Silkscreen legend
- Solder mask on both sides makes soldering easy

\* Web Code: DAT



132644



132636



132652

**Includes:** Documentation sheet with schematic, suggested parts and placement

**PICProto 18, 18L:** All 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83 and 84

Part No.	Mfr. Part No.	Description	Size (L" x W")	1	5
132644	PP18	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891	PP18L	PICProto 18L	3.6 x 4.1	19.95	17.95

**PPUSB:** For the 28-pin PIC16C745, 765; PIC18F2450, 2455, 2550  
For the 40-pin PIC18F4450, 4455, 4550

1942180	PPUSB	PICProto USB	3.6 x 4.1	\$19.95	\$17.95
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**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242 and 252

132636	PP3	PICProto 3	3.0 x 3.0	\$14.95	\$12.49
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**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422 and 452

132652	PP64	PICProto 64	4.0 x 3.0	\$16.95	\$12.95
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## MICROCHIP PICKIT™ 2 Microcontroller Starter Kit

The PICKIT™ 2 microcontroller programmer is a low cost development programmer. It is capable of programming most of Microchip's Flash microcontrollers. New device support can be added by updating the operating system. The latest firmware is available on Microchip's website. This kit includes PICKIT™ 2 microcontroller programmer, USB cable and CD ROM.



Part No.	Mfr. Part No.	Description	1	5
697338	DV164120	Programmer starter kit	\$74.95	\$69.95

## velleman PIC™ Programmer Board

- Regularly updated list of microcontrollers through Velleman's website ([www.vellemanusa.com](http://www.vellemanusa.com))
- On-board configurable 40-pin ZIF socket
- Easy to use programming PICprog2006 software included
- On-board "In Circuit Programming" DSUB-9 connector
- Power supply: 15VDC @ 300mA adapter (recommend P/N 190001, pg 121)
- Supports over 50 PIC products. Visit [www.vellemanusa.com](http://www.vellemanusa.com) for details

**System requirements:** IBM compatible PC, Pentium or better, Windows® 98/ME/NT/XP/Vista, CDROM drive, RS-232 port

Part No.	Mfr. Part No.	Description	1	5
2006844	VM134	PIC™ programmer board	\$89.95	\$84.95



## microEngineering Labs USB PIC Programmer

More than 300 PIC microcontrollers are supported and support for future devices can be added via FLAS firmware updates. Intelligent voltage regulation allows programming of the new, low voltage PIC® MCUs as well as standard 5V devices.

- Dual color indicator shows ready/busy states
- Full featured, command-line operation
- Standard USB cable (Type A male to Type B male)
- Automatic Vdd and Vpp adjustment for different PIC MCUs
- In-Circuit Serial Programming (ICSP) connector for interface to project board
- Compatible with microchip HEX format files & all programming adapters
- Fast full speed USB data transfer
- HID interface



Part No.	Mfr. Part No.	Description	1	5
1942382	U2	USB PIC programmer	\$99.95	\$89.95
1942606	840Z	ZIF adapter (8-40 pins)	39.95	37.95

\* MicroEngineering Labs Programmers Available Online — Enter Web Code: EAT

\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## microEngineering Labs

### EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 11.

- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming

**Requires:** Two 9V batteries or AC adapter (below)

Part No.	Description	1	5
132679	EPIC Plus PICmicro programmer .....	\$59.95	\$53.95
136397	8/18/20-pin ZIF adapter .....	34.95	32.95
132610	40/28-pin ZIF adapter .....	34.95	32.95
162317	AC wall adapter (16VDC/500mA, details on pg 121) .....	9.95	8.95
67257	6' DB25 cable (details on pg 180) .....	7.95	6.95



## XELTEK

### 37,000+ Device/48-Pin USB Stand-Alone Gang Programmer

- 4 high speed 48-pin DIP programming sockets with four 128MB flash cards
- Supports 37,000+ devices, and growing
- Operates in both PC and stand-alone mode for volume production
- Programs latest low voltage devices
- ISP (in-system programmable) devices supported
- Asynchronous fast programming, each module is independent from one another
- Programming starts automatically when a chip is inserted
- Supports EPROM, EEPROM, serial EPROM, paged EPROM, serial PROM, flash EPROM (NOR & NAND), NVRAM, SPLD, CPLD, EPLD, MCU, microcontroller, SRAM, and standard logic devices with voltages down to 1.5V
- Stand-alone interface: 16 characters x 4 lines backlit LCD, 6 standard hard-keys, 4 compact flash cards (removable which can support up to 256MB)
- Operating volt.: AC input of 90-250V @ 50/60 Hz, or 24V @ 5A power adapter
- Size: 21.3"L x 7.7"W x 2.3"H

**Includes:** 4 128MB CF cards, AC adapter, CD-ROM, USB cable and manual

Part No.	Description	Price
692490	SUPERPRO 9000U programmer .....	\$2,399.95

**SAVE \$1295.00**  
Suggested Resale  
**\$3695.00**



### 512k (E)EPROM/Flash Programmer w/ USB Interface

Compact, portable, and lightweight stand-alone (E)EPROM Flash programmer. Also interfaces with your PC through the USB port.

- Programs Flash EPROMs, EEPROMs, EPROMs & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- Adjustable IC parameters such as programming algorithm, Vpp voltage & pulse width
- Supports file formats binary and machine code, Intel HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP • Size: 6.3"L x 4.3"W x 1.8"H

**Includes:** USB cable, 12VDC @ 500mA power adapter and CD-ROM

Part No.	Description	1	5
220636	Leaper-3C .....	\$299.95	\$279.95



### Flash Writer/Programmer with USB Interface

- Supports Flash EPROMs, EEPROMs & EPROMs
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Programs 8-bit Flash serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: only 22 seconds to blank check, program and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix

**Includes:** USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947	Leaper 3D .....	\$199.95	\$179.95

Ⓢ Blue Part No. = Limited Quantity Available



### Fast Low-Cost Universal Device Programmer

#### USB Interface

- Universal device (13000+) support includes the latest NAND Flash Memory, standard Flash Memory, EPROM, EEPROM, serial PROM, GAL, FPGA, and MCU
- On-board FPGAs for extremely fast communication
- Supports real low-voltage support: 5, 3.3, 2.7, and 1.8 volt for programming power
- External "Start" key allows customer to execute the optional auto program parameters without PC command
- Detects all pin locations for poor or damaged pin contacts
- Current limiting protects hardware circuit from improperly inserted or defective chips and operation errors
- External switching power supply, 110-240VAC
- Support a high-speed USB2.0 port for PC interface
- Support a standard IEEE-1149.1 (JTAG) port

**Includes:** USB cable, wall adapter, program CD and manual

**System Requirements:** IBM PC 386,486, Pentium® or compatibles with USB port, Windows® 98/Me/2000/NT/XP, hard drive, 512K RAM

Part No.	Description	Socket	1	5
694866	CHIPMAX 2	48-pin ZIF .....	\$549.95	\$529.95



## XELTEK

### Superpro Series Universal Programmers

#### Stand-Alone Programmers for Engineering & Volume Production

Two programmers in one, a double value: stand-alone mode, PC mode ultra-high speed universal programmer, built-in 144-pin-drivers 48,000+ device support and growing; the largest in the industry! 600+ socket adapters to support all ranges of package types.

Part No.	Description	1	5
231221	SuperPro-3000U USB .....	\$1,099.95	\$999.95
231255	32-pin PLCC adapter .....	94.95	89.95



#### USB Interfaced Ultra-High Speed 48-pin

- More than 35,000/25,000 devices are supported
- Programs + verify INTEL 28F320W18, 32Mb less than 13.5s
- Support in system programming
- Ultra fast programming times

Part No.	Description	1	5
692457	Superpro 280U programmer .....	\$579.95	\$549.95
692449	Superpro 580U programmer .....	759.95	739.95



#### Entry level product with amazing price

- 40-pin low cost universal programmer
- 3,500+ devices are supported
- self diagnostic test at startup
- Built-in overcurrent protection
- Connect to PC via printed port
- Support Windows® 98/95/2000/NT/ME/XP and Vista

Part No.	Description	1	5
231183	Superpro Z programmer .....	\$289.95	\$259.95



**\* Universal Programmers — Enter Web Code SUP**

## UVP

### EPROM Eraser

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm²

Part No.	Description	Size (L" x W" x H")	Weight	1	5
15712	8-chip eraser	9.0 x 3.7 x 2.6	2.3 lbs. ....	\$154.95	\$139.95
34382	Lamp for 15712	—	— .....	34.95	29.95



**Our enhanced website offers thousands of datasheets and photos to assist you in finding the products you need.**



## 150 to 500-Watt PC Power Supplies

★ Web Code: HCA



### AT Power Supplies

Part No.	Mfr.	Product No.	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	10	25
2081764	Magic	MPI-925A*	200	+5/20, +12/7.5, -12/1, -5/1	85-265 @ 50-60	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/TUV/CE	6.0 x 5.6 x 3.4	3.3	\$39.95	\$35.95	\$31.95
249754	Sparkle	SPI-300G	300	+5/30, -5/0.5A, +12V/12A, -12V/0.5A	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 130)	UL/CSA/TUV FCC	5.5 x 5.9 x 3.4	3.5	64.95	58.95	52.95
2081861	Pacific Power	KPP400-29	400	+5/42, +12/14, -5/1, -12/1	100-240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 130)	CUL/TUV/CE	5.5 x 6.0 x 3.5	4.6	64.95	57.95	49.95

### ATX Power Supplies

Part No.	Mfr.	Mfr. Part No.	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs)	Pricing		
										1	10	25
196189	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/TUV/CE FCC	7.5 x 4.0 x 1.6	2.5	\$29.95	\$26.95	\$23.95
2081887	Enhance	ENP-0185T	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	115-230 @ 50-60	3-prong AC receptacle (P/N 38050, pg 130)	CUL/TUV/CE	7.5 x 3.25 x 1.7	2.5	24.95	22.49	19.95
421657	Powertronic	PK-6180DT3	200	+3.3/14, +5/22, +12/6 +5VSB/0.1, -5/0.5, -12/0.8	115/230 @ 47-63 switchable	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/TUV	6.0 x 5.6 x 3.5	3.3	19.95	17.95	15.95
2081879	Pacific Power	KPT230C-4A	230	+3.3/15, +5/25, +12/9, +5VSB/1A, -5/1, -12/1	100-240 @ 50-60	3-prong AC receptacle (P/N 38050, pg 130)	CUL/TUV/CE	8.0 x 4.0 x 1.6	3.0	22.95	20.49	18.49
319994	3Y Power Technology	AP-1250-1112*	250	+3.3/20, +5/25, +12/12 -5VSB/3, -5/5, -12/0.5	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.9	19.95	17.95	15.95
427928	Seasonic	SS-300SFD Active PFC	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264 @ 47-63 switching	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	54.95	53.55	49.95
1810136	Sparkle	FSP300-601U*	300	+3.3/20, +5/25, +12/16, -5/0.3, -12/0.8, 5VSB/2	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/VDE/CE	8.3 x 4.0 x 1.6	3.3	24.95	23.95	22.95
2077482	Emacs	APS-5300F-RV2	300	+3.3/28, +5/30, +12/10, +5/0.85, -5/1, -12/1	115-230 @ 50-60 switching	3-prong AC receptacle (P/N 38050, pg 130)	UL/CSA/CE/TUV	6.0 x 5.5 x 3.4	3.3	24.95	22.49	19.95
1810144	LC Power	LC350U*	350	+3.3/16, +5/30, +12/15 -5/0.5, -12/0.8, +5VSB/2	100-240 @ 50-60 switchable	3-prong AC receptacle (P/N 38050, pg 130)	UL/TUV/CE	5.9 x 5.6 x 3.4	2.3	24.95	22.49	19.95
308814	Powmax	LP6100D*	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	49.95	44.95	39.95
422617	Sparkle	FSP-400-60GN	400	+3.3/28, +5/28.5, +12/25, +5VSB/2, -5/0.3, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CSA/CB	5.5 x 5.9 x 3.4	5.0	69.95	66.49	59.95
422094	Seasonic	SS-500HT Active PFC	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264 @ 47-63	3-prong AC receptacle (P/N 38050, pg 130)	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	99.95	89.95	79.95

\* See photo above Blue Part No. = Limited Quantity Available

## Computer Switchboxes

★ Web Code: CAK



### KVM Switchboxes

Part No.	Mfr.	Fig.	Product No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
310842	—	1	2-PRT KVM-USB	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	User connectors: PS/2 female for keyboard & mouse; HDDB15 female for monitor to PC connectors: two HDDB15 male for monitor, two USB-A male; two 3.5mm jack	2.9 x 2.7 x 1.1	1.5	\$24.95	\$22.49
149391	ATEN	2	CS-114A	4-way KVM switchbox (4 PCs to one user)	DB9 serial female / PS/2 keyboard & mouse; recommend P/N 204062 (see web) for PS/2 cable. Includes manual and power supply	10.0 x 7.0 x 3.0	7.1	119.95	107.95
132249	ValuePro	3	40H1-25602	2-user switchbox (1 PC to 2 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB9 male). P/N 66174 (DB15HD M-M cable); P/N 132346 (DB9 F-F cable) pg 180	7.5 x 5.3 x 2.8	1.6	14.95	13.49
310834	Various	4	KS-104	4-way KVM switchbox (4 PCs to 1 user)	PS/2 female for keyboard and mouse; HDDB15 for monitor, recommend P/N 202180 pg 120 for power supply	7.4 x 1.3 x 2.9	7.1	69.95	62.95
134017	Various	5	40H1-25604	4-user switchbox (1 PC to 4-users)	5-pin DIN male for keyboard, HDDB15 female for monitor, DB9 male for mouse use P/N 66174 HDDB15 M-M cable for monitor; P/N 132346 pg 180 (DB9 F-F cable for mouse)	7.5 x 2.8 x 5.3	2.3	25.95	23.49

### Miscellaneous Computer Switchboxes

79126	ValuePro	6	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
79142	ValuePro	7	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)	6.0 x 4.8 x 2.5	1.2	8.95	7.95
20095	ValuePro	8	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	10.95	9.95
310818	—	9	USB-2PORT	2-way USB switchbox	1 USB-B female; 2 USB-A female	5.1 x 3.7 x 1.8	2.5	8.95	7.95



★ Web Code: EPS

Enter web codes online for additional product listings & specifications.  
Look for the web code box on the home page.  
[www.Jameco.com/More](http://www.Jameco.com/More)

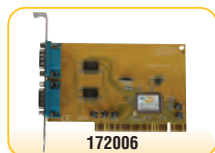
\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

# Interface Cards & Keyboards

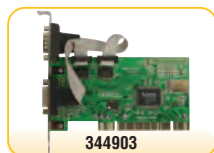
3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

## Interface, Graphic & Sound Cards

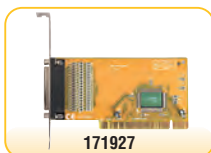
★ Web Code: VBB



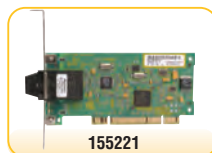
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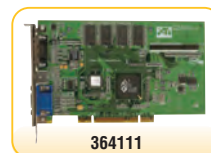
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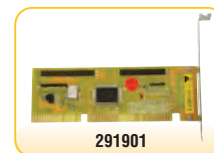
171927



155221



364111



291901

### Serial Interface Cards

Part No.	Manufacturer	Product No.	Bus Type	Ports	Connectors	Description	1	10
171362	Various	4025A	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550	\$24.95	\$19.95
172006	Dolphin	99467	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.	34.95	30.95
171548	Various	99468	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550.	69.95	59.95
171661	Various	99469	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	119.95	109.95
344903	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.95	24.95

### Parallel Interface Card

171927	Dolphin	4008A	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	\$39.95	\$34.95
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### Network Interface Card

155221	3-COM	3CR990B-FX-97	PCI	1	FDD1	100BASE-FX Secure fiber network interface card	\$24.95	\$19.95
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### Video Graphics Card

364111	ATI	109-54100-00	PCI	2	HDD15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows® 98 and NT4.0 compatible.	\$24.95	\$22.45
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### SCSI Cards

★ Blue Part No. = Limited Quantity Available

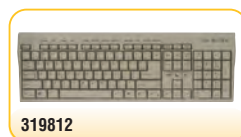
149294	Various	CI-2020	ISA	—	50-pin F	DOS, Windows® NT/95, OS2 Netware, SCO UNIX compatible, internal and external SCSI-II connectors, fast SCSI II	\$34.95	\$29.95
191513	Adaptec	AHA-2940U2B	PCI	2	68-pin F	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, Ultra II SCSI internal/external Ultra II SCSI 68-pin connectors, ultra SCSI II	59.95	54.95

### I/O Controller Cards

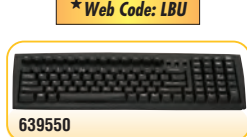
291901	—	MCT-IDEFH-2	ISA	—	Multiple	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports.	\$5.95	\$5.49
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### Sound Card

249404	Creative Labs	CT4830	PCI	—	Multiple	2-audio line-out (mini stereo 3.5mm F), 1 microphone input (mini phono 3.5mm F) 1-audio line-in (mini stereo 3.5mm F) and 1 game port (DB15F)	\$24.95	\$22.45
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319812



639550

## Keyboards & Keypads

★ Web Code: LBU



681230



308101



1537109



265375

Part No.	Mfr.	Product No.	Interface	Description	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
455603	Powmax	KM-2501	PS/2	104-key soft touch w/ multimedia & 12 function keys.	17.5 x 6.0 x 1.2	1.8	\$8.95	\$7.95	\$6.95
319812	PC Concepts	iCIA	PS/2	107-key soft touch keyboard w/ programmable function keys, software included	17.5 x 5.7 x 0.8	1.8	7.95	6.95	6.25
354950	COMPAQ	KB-9965	PS/2	107-key soft-touch keyboard w/ 12 function keys	18.5 x 6.5 x 1.4	1.3	4.95	4.49	3.95
639550	IOne	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)	15.9 x 6.5 x 1.3	2.1	39.95	35.95	31.95
681230	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/ built-in speakers	18.5 x 10.0 x 3.2	2.5	12.95	11.49	9.95
454483	Powmax	HB5103	PS/2	Black 3-in-1 internet kit 104-key optical mouse, speakers	17.1 x 6.12 x 1.0	2.24	14.95	13.49	11.95
319661	IOne	Gemini-M1	PS/2	104-key soft touch wireless keyboard w/ 12 multimedia function keys and 2-butt optical mouse, batteries included	17.6 x 7.5 x 1.6	2.2	14.95	13.49	12.95
308101	Labtech	967360-0403	PS/2	104 RF keyboard and 3-button optical scroll-mouse multimedia hot-keys	18.0 x 8.7 x 1.6	4.5	29.95	26.95	23.95
1537109	Arctic	25551	USB	18-key tactile keypad	4.3 x 3.0 x 0.5	0.2	12.95	11.49	9.95
265375	IOne	Scorpius-22RB	Serial	22-key tactile keypad w/ 2-key rollover and auto repeat function	6.2 x 4.2 x 1.3	0.8	39.95	35.95	31.95

## Replacement Switches for AT-Style Computer Cases

### PC Pushbutton Switch

- Contacts rated at 250VAC • Current: 8A
- Alternate action double pole switch
- UL/CSA/VDE approved • Size: 0.9"L x 0.7"W x 0.9"D

Part No.	Product No.	1	10	100
174238	PSD-1-2S8	\$1.49	\$1.25	\$0.95



### PC Rocker Switch

- For mini-tower cases • Current: 10A
- Contacts rated at 250VAC • DPST
- UL/CSA approved • Size: 0.9"L x 1.2"W x 1.4"D

Part No.	Product No.	1	10	100
127028	GRK-618A +	\$1.49	\$1.25	\$0.95



## Business Card CD-R Kit

Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.



Part No.	Description	1	10
249308	Do-It-Yourself Business card CD-R kit	\$2.49	\$2.25

[www.Jameco.com/TechCenter](http://www.Jameco.com/TechCenter)

Receive an additional 20% off all items in the Tech Center the THIRD TUESDAY of EVERY MONTH! Save big on Takedown Tuesdays!

★ RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## Mice & Mouse Pads

\* Web Code: MCM



Part No.	Manufacturer	Product No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
685943	Dell	OW7751	Mech. Ball	USB	3-button with scroll; black	4.8 x 2.5 x 1.5	\$7.95	\$6.95	\$6.25
687746	Cherry	M-5000	Optical	USB-PS/2	3-button with scroll with PS/2 to USB adapter; black	4.6 x 2.6 x 1.5	7.95	6.95	6.25
265471	—	—	Optical	USB	Mini optical mouse	3.7 x 2.2 x 1.3	9.95	8.95	7.95
305082	IOne	Libra-90	Trackball	PS/2	PS/2 trackball with USB adapter	5.6 x 4.7 x 1.9	29.95	26.95	24.95
2006650	IOne	MSM9UP-BLK	Optical	USB-PS/2	3-button with scroll; black	4.5 x 2.3 x 1.5	8.95	7.95	6.95
2006668	IOne	MSM9UP-WHT	Optical	USB-PS/2	3-button with scroll; white	4.5 x 2.3 x 1.5	8.95	7.95	6.95
265447	BenchPro	32022378	Optical	PS/2	Wireless, 5 button optical scrollpro w/ PS/2 to USB adapter	4.9 x 3.0 x 1.6	17.95	15.95	14.95
121363	—	KP-01	Mouse pad	—	Mini mouse pad (blue)	7.0 x 5.5 x 1.0	.69	.59	.49
1951001	—	MP-ATT	Mouse pad	—	Mouse pad (2" x 3.5"; 2.75" x 5" window slots)	9.5 x 7.5 x 1.2	.69	.59	.49



## 4, 7, 8 & 12-Outlet Surge Protectors

### Isobar Premium Surge Protectors

\* Web Code: CAC

- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4-outlet protectors: 6' cord; 8 & 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed • Lifetime warranty
- Surge suppressor fits 19" rack mount
- Size: **19001:** 9.0"L x 3.5"W x 2.5"H; **18981:** 5.8"L x 3.5"W x 2.5"H; **139686:** 17.5"L x 4.0"W x 1.8"H



Part No.	Mfr. Part No.	Joules	Description	Size (L" x W" x H")	Wt. (lbs.)	1	10
18981	ISOBAR 4	2200	4 outlet, 2 isolated filters (6')	2.4	\$49.95	\$44.35	
19001	ISOBAR 8U	2350	8 outlet, 4 isolated filters (12')	3.5	74.95	66.95	
139686	IBAR12RM	750	12 outlet, 2 isolated filters (15')	4.7	129.95	122.95	

### Super 7 Standard Surge Protectors

- \$75,000 Ultimate Lifetime Insurance • Up to 42,000 amp spikes
- Effective spike and noise suppression w/ diagnostic LEDs

Part No.	Mfr. Part No.	Joules	Description	Size (L" x W" x H")	Wt. (lbs.)	1	10
124337	Super 7	2350	7 outlet	10.5 x 2.5 x 1.5	1.6	\$19.95	\$17.95
168954	Striker	750	7 outlet	11.2 x 2.1 x 1.5	1.2	12.95	11.49

## 6 & 8-Outlet Surge Protectors

- 20175: 6-outlet; 4' cord**
- Metal power strip
- Size: 12.3"L x 2.4"W x 1.3"H

\* Web Code: XAR



- 216485: 6-outlet; 4' cord**
- Heavy-duty power cord (14AWG x 3)
- Size: 9.5"L x 1.7"W x 1.4"H
- Clamping voltage: 400V
- Max. surge volt.: 6500V
- RESET/OFF switch with built-in 15A circuit breaker



- 2075647: 6-outlet; 6' cord**
- Rating: 15A/125VAC/1875W
- Clamping volt.: 330V
- Size: 13"L x 2.1"W x 2.3"H
- Expands from 13" to 18" to fit bulky adapters; each segment expands separately



- 2079411: 8-outlet; 6' cord**
- Lifetime warranty \$250,000 connected equipment • Size: 12.5"L x 5.0"W x 1.5"H

Part No.	Mfr.	Product No.	Spike Current (Max.)	Wt. (lbs.)	1	10	25
20175	ValuePro	51W1-13206	4500A, 50 joules	1.5	\$11.95	\$10.95	\$9.95
216485	ValuePro	51W1-10206	4500A, 150 joules	0.9	12.95	11.49	9.95
2075647	Ideative	SS1650W-06	144,000A, 2160 joules	1.6	24.95	22.49	19.95
2079411	Belkin	F9M800	135,000A, 2655 joules	2.8	16.95	13.95	12.49

\* Video Text Modules Available Online — Enter Web Code RAJ

## 6-Outlet Power Tap Adapter with Surge Protection

- Right angle jacks • Grounded outlets • 180 joules
- Surge protection across line and neutral, line and ground
- Surge protection circuit good LED indicator
- 15 Amp; 125VAC; 1875 Watts
- TVSS 330 Volts

NEW  
MARKED IN PINK

\* Web Code: XAR



Part No.	Product No.	Description	1	10	100
2082214	YE-08A	6-outlet wall surge protector	\$4.95	\$4.49	\$3.95

## CPU Heat Sinks with Fan

\* Web Code: MBG



Part No.	Description	Size (H" x W" x D")	1	10
684748	Heat sink w/ fan, socket 7 Pentium®	1.02 x 2.60 x 2.30	\$2.95	\$2.65
319185	Heat sink w/ fan, socket 7 PIII	1.40 x 2.62 x 2.30	3.75	3.49
1945313	Heat sink w/ fan, Pentium® 75-133MHz	2.07 x 2.05 x 1.43	4.95	4.49
206244	Heat sink w/ dual fan, SECC II Pentium®	1.24 x 1.96 x 5.25	7.95	6.95
319951	Heat sink w/ dual fan, for PIII slot 1	2.00 x 4.90 x 8.50	5.95	5.49
661087	Heat sink w/ fan, socket 370 PIII	2.36 x 2.19 x 1.54	5.95	5.49
645482	Heat sink w/ fan, socket 370 PIII	1.30 x 2.05 x 1.97	11.95	10.95
190545	Heat sink w/ fan, socket 370 PIII	2.00 x 2.32 x 2.37	10.95	9.95

## Legacy 3.5" Hard Disk Drives

\* Web Code: SAW

Part No.	Capacity	Description	Warranty	1	10
151036	3.2GB★	EIDE/Ultra DMA33	1 year	\$34.95	\$31.45
151044	4.3GB★	EIDE/Ultra DMA33	1 year	49.95	44.95
146333	2.5GB★	EIDE/FAST ATA-2	1 year	29.95	26.95
124978	1.27GB★	IDE	1 year	29.95	26.95

★ Pull = Extra Savings

## 3.5" Hard Drive Bracket Short

Part No.	Product No.	Color	* Web Code: SDW	1	10
1950745	G/S435	Silver		\$4.95	\$4.49

## 1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H
- Weight: 1.4 lbs. • Color: black

\* Web Code: LAQ

Part No.	Manufacturer	Product No.	1	10
453683	Sony	MFB820	\$24.95	\$21.95
661108	Mitsumi	D359M3D	14.95	12.95

## CD-ROM Audio Cables

Part No.	Mfr.	Connection from Sound Blaster to	Length	1	10	25
127546	ValuePro	Sony/MPC2	25'	\$1.95	\$1.75	\$1.49
168613	ValuePro	Universal	18'	2.49	2.25	1.95



\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above



## USB 2.0 4-Port Hubs

Add multiple high performance USB 2.0 peripheral devices to your PC. Fully compliant with USB specifications. Fully backwards compatible with USB 1.1 devices.

- Overcurrent detection & protection
- Compatible with USB specification Rev. 2.0 (data rate 1.5/12/480Mbps)
- 1 upstream & 4 downstream ports
- Connects up to 127 USB devices
- Supports Windows® 98SE/ME/2000/Server 2003/XP/Vista; MAC® OS 8.6 or higher
- Plug-and-play

**1944687/1944679:**

- Bus-power & self-power mode used
  - Automatic connection & speed detection
- 1944695:**
- 4 LED indicators for downstream port status
  - Self-power mode used separate AC adaptor required P/N 252736 • High speed

Part No.	Product No.	1	10
1944687	HU2044	\$12.95	\$11.49
1944679	HU2K40	11.95	10.95
1944695	HU2542	14.95	13.49

★ Web Code: NEM



1944687



1944679



1944695

## USB 2.0 Multi-Plus Card Reader/Writer

- Transfer rate of up to 480Mb/sec.
- Allows data exchange in different slots
- 4 slots support compact flash, IBM Microdrive, SmartMedia, memory stick, SD and MMC devices



Part No.	Product No.	1	10
1944716	RU2340	\$9.95	\$8.95

## USB 2.0 2-Port Manual Share Switch

- 2 channel switch (2 USB-B ports, 1 USB-A port)
- USB 2.0 compliant
- Switch between computers by using port select button or hot key
- Supports 2 computers sharing 1 USB device
- Provides bus-power of 500ma per port



**Requirements:** IBM compatible PC with Windows® 98SE/ME/2000/XP or MAC OS 9.0 or higher, USB port

Part No.	Product No.	1	10
2075831	SS2115	\$12.49	\$10.95

## USB 2.0 Docking Station

- Connects via USB-A port to your laptop



**System Requirements:**

PC with 75MHz min. Pentium® or equivalent; 16MB of RAM min., available USB-A port, Windows® 98 or later

Part No.	Product No.	Size (WxDxH)	1	10
527822	USB 2.0 dock	4.8"x2.5"x1.0"	\$9.95	\$8.95

## USB 2.0 Ethernet Adapter

A high performance, highly integrated USB 2.0 bus Ethernet controller with embedded 7k x 16 bit SRAM.

- USB 2.0 and 1.1 compliant
- IEEE802.3 (10Base-T) & 802.3u (100Base-TX)
- Supports suspend mode and remote wake up via link-up
- Supports full-duplex and half-duplex operations



★ Web Code: SDR

**Requirements:** IBM compatible Pentium® 233MHz or faster, 64MB or more, USB port available, Windows® XP/2000/Vista 32/64-bit, Mac® OS 10.x

Part No.	Product No.	Size (LxWxH)	1	10
1944513	AE2201	2.8" x 2.0" x 1.0"	\$21.95	\$19.95

## The Best Warranty in the Industry

**All Jameco purchases are guaranteed for a full 90 days and even longer for Jameco House Brands.**

## HDMI Switch

This HDMI switch allows HDMI sources, such as DVD players, DTV set-up box, game station, or HDMI computers to share a single high definition display.

- Supported resolutions: 480/720/1080 i/p
- Power supply: input: 100-240VAC; output: 5V @ 1A
- Signal equalizer and pre-emphasized outputs, ideal for systems with long cable runs up to 20 meters
- Version 1.3



**Includes:** Power supply and installation guide

Part No.	Product No.	Inputs	1	10
2006684	VS4030	3	\$69.95	\$62.95

## Serial ATA to IDE Converter

This serial ATA to IDE converter allows standard parallel ATA hard disk drives, CD-ROM, CD-RW, DVD-ROM, DVD + RW, to be used with serial ATA PCI cards or motherboards with serial ATA ports and meet the specification of serial ATA 1.0 interface.



- Compliance with Serial ATA Gen. 1.0
- Master/slave device emulation support
- Supports PIO mode 0 ~ 4, Ultra DMA mode 0 ~ 7, UDMA transfer rates of up to 150Mbps, ATAPI command set and 48-bit LBA addressing

**Requirements:** PC with available Ultra ATA hard disk (IDE) and available Serial ATA host port

Part No.	Product No.	1	10
1944661	AD3300	\$19.95	\$17.95

## PC Speakers

- 3.5mm male stereo plug
- Size: 4.7"H x 3.0"W x 4.0"D



Part No.	Product No.	1	10	25
311079	5065-5746	\$3.95	\$3.55	\$2.95

## Hands-Free Condenser Microphone

- Cord length: 8'
- One-year warranty
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H

★ Web Code: GCP



Part No.	Product No.	1	10	50
135248	MP-9108-R	\$4.95	\$4.49	\$3.95

## Clip-On Lapel Microphone

- For Motorola cell phones and other applications
- 2.5mm male stereo plug
- Includes ear bud

★ Web Code: GCP



Part No.	Cord Length	1	10	50
2078207	3'	\$2.49	\$2.25	\$1.95

## USB Complete

**Lakeview** (3rd Edition) Provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (572 pages, 2005) • Size: 7.0" x 9.0"



Part No.	Description	Wt. (lbs.)	1	10
171900	USB Complete Book	1.9	\$49.95	\$44.95

## USB 2.0 to SATA/IDE Combo Adapter

Keep the existing IDE drive while at the same time migrating to the new SATA technology, which provides a transfer rate of up to 150Mbps. Any SATA or IDE drives can be turned into an external USB 2.0 storage device.



- SATA 1.0a and USB 2.0 compliant
- Dual-headed IDE connector (4- and 44-pin) plus one SATA connector that supports 2.5"/3.5"/5.5"
- Operates one IDE and one SATA HDD simultaneously
- External power supply provided

**Requirements:** IBM compatible Pentium® 233MHz, USB, Windows® 98SE/ME/XP, MAC OS 8.6 or later

Part No.	Product No.	1	10
2075815	AS1200	\$49.95	\$44.95

## AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs.
- Two-year warranty



**System Requirements:** VGA-based PC, DOS 3.0 or higher, 640kb RAM or larger

**Includes:** PC-to-TV converter, adapter, cables & manual

Part No.	Description	1	10
167193	Video signal pro	\$84.95	\$75.45

## IDE HDD Enclosure

- Removable enclosure for 3.5" drive bay
- Includes insert and hardware
- Size: 5.8"W x 8.9"D x 1.6"H
- Weight: 1.31 lbs.



Part No.	Product No.	1	10
319775	DT51PC	\$7.95	\$6.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## ATEN RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- RS-232: DB25 female connector
- Input: 110VAC
- Weight: 0.9 lbs.
- One-year warranty



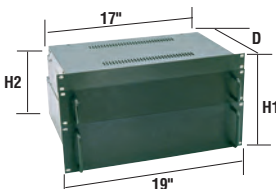
**197931:** Port powered (power adapter not included)  
• Data rate: 100kbps

**122956:** Features RS-485SI; optical isolation: 2000V

Part No.	Description	1	10
117701	RS-232-485/422	\$49.95	\$44.95
197931	RS-232-485/422	59.95	53.95
122956	RS-232-485/422 OPT ISO	89.95	80.95

## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- 0.12" thick black front panel
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813



**Includes:** Mounting screws

Part No.	Dimensions (in.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	10
132813	1.73	1.25	9.75	6.2	\$39.95	\$35.95
132822	3.46	3.00	9.75	7.9	51.95	46.95
132840	3.46	2.88	11.75	9.1	54.95	49.95
132848	5.22	4.75	11.75	10.6	59.95	53.95
132864	8.56	8.00	13.50	15.4	109.95	99.95

**\* Rack Mounts Available Online — Enter Web Code GAT**

## 19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Weight: 18 lbs.
- Size: 19.0"W x 13.0"D x 1.75"H



**Includes:** Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Product No.	1	10
220644	IAC-K055V1.1	\$229.95	\$209.95

## 19" Rack Mount Enclosure for 14" Monitor

- Clear glass front panel
- Hinged door for accessing monitor controls
- Color: gray
- Size: 19.0"W x 15.1"D x 14.0"H
- Weight: 30 lbs.

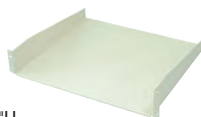


Monitor not included

Part No.	Product No.	Price
136021	IAC-C910	\$159.95

## Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H



Part No.	Product No.	1	10
149500	UP02	\$34.95	\$31.95

## 19" Rack Mount Cat 5 Patch Panels



**\* Web Code: GBK**

These Cat 5 patch panels feature 110D punch locks that are compatible with KRONE or 110D tools. UL and CUL listed and certified. Cat 5 certified and can be used with T568 A/B installations, color coded blocks for T568 color coding.

Part No.	Description	1	10
208768	12-port patch panel	\$24.95	\$21.95
208785	24-port patch panel	29.95	26.95

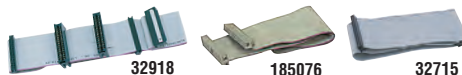
## QuickNetwork Install Can

- Type: Install can for QuickNetwork panels
- Feature: power supply and cover installed
- Size: 24"



Part No.	Mfr. Part No.	1	10
636607	QN24	\$59.95	\$49.95

## Disk Drive & SCSI Cables



- 32918:** 34-pin header socket ribbon cable for floppy to card
- 185076:** 40-pin IDE hard drive cable to card
- 32715:** 50-pin header socket ribbon cable SCSI-I

**\* Web Code: TAE**

Part No.	Mfr.	Length	1	10	100
32918	ValuePro	23"	\$0.59	\$0.55	\$0.49
185076	Various	14"	2.95	2.49	1.95
32715	ValuePro	18"	3.75	3.49	2.95

## AT/ATX Power Supply Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply



Part No.	Length	AWG	1	10	100
170238	15'	18	\$8.95	\$7.95	\$6.95

## 3.5" & 5.25" Disk Drive Power Splitters and Adapters

- IBM PC/XT and higher compatibles
- 28354/277528/72304:** Splits 4-line Molex male into 2 female
- 28397:** 4-line Molex male to female



Part No.	Drive	AWG	Length	1	10	100
28354	5.25"	18	5"	\$2.75	\$2.49	\$1.95
277528	5.25"	20	6"	1.55	1.39	1.25
72304	3.5"	22	5"	3.75	3.49	2.95
28397	3.5"	22	3.5"	4.75	4.25	3.79

## More Information Online

Compare products online to quickly find the products you want with the specifications and real time product availability. Purchasing products has never been easier.  
[www.Jameco.com](http://www.Jameco.com)

## ATEN Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)



Part No.	Product No.	1	10	25
116581	IC-150	\$23.95	\$21.95	\$19.95

**\* For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**



## Monitor/Mouse/Keyboard Cable

HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard and DB9 male/female for mouse.

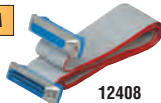


Part No.	Product No.	Length	1	10
141284	G/S(KVM062)	6'	\$14.95	\$13.49

## Ribbon Cable Assemblies

- Metal connector
- 105°C rating
- 28 AWG flat cable
- 300V rating
- Tin-plated contacts

\*Web Code: VAA



Part No.	Description	1	10	100
12408	4' DB25 M-F	\$4.95	\$4.45	\$3.95
208582	6' DB9 M-F (ValuePro)	4.95	4.45	3.95

## Keyboard Adapters

28003/157930/159097:

- Connect AT type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN



310789/189771:

- Connect PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connector

316831: • USB-A female to PS/2 male

Part No.	Length	Material	1	10	100
159097	1.4'	Metal	\$1.95	\$1.75	\$1.59
157930	1.7'	Plastic/metal	.39	.35	.29
189771	1.7'	Plastic	.95	.85	.75
316831	2.0'	Plastic	1.49	1.35	1.19
28003	6.5'	Plastic	1.25	1.09	.99
310789	7.5'	Plastic	1.95	1.75	1.59

## Adapter Cables

PS/2 6-pin mini DIN

\*Web Code: HAE

177261: Male to male non-coiled cable for P/N 79177 switch box (see web)

174772: Male to male

174908/205655: Male to male non-coiled

28549/111053: Female to male non-coiled

112628: Male to male non-coiled cable for P/N 79177 switch box (see web)



Part No.	Length	Color	1	10	100
177261	2'	Gray	\$1.75	\$1.49	\$1.25
174772	6'	Black	3.95	2.95	2.49
174908	6'	Gray	3.49	2.95	2.49
28549	6'	Beige	4.75	4.25	3.95
111053	10'	Beige	4.95	4.45	3.95
112628	10'	Beige	7.95	7.25	5.95
205655	25'	Beige	7.95	6.95	6.25

PC/XT/AT 6-pin mini DIN (non-coiled)

Part No.	Length	Color	1	10	100
114981	6'	Beige	\$1.95	\$1.75	\$1.49

## Macintosh® Printer and Keyboard Cables



Part No.	Mfr.	Description	1	10	100
1944994	Various	40' DIN8M w/ EMI	\$2.95	\$2.49	\$2.25
10604	ValuePro	6' DIN8M	3.95	3.49	3.05
130025	ValuePro	10' DIN8M	4.95	4.45	3.95

RoHS compliant product

+ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 190.

## Computer Cables

JAMECO ValuePro



Extension Cables • All lines connected straight through

\*Web Code: CCS

Part No.	Description	Length (ft.)	Color	1	10	100
2075971	DB9 male-to-female w/ thumbscrews & filter, w/ green connectors	6	Black	\$4.49	\$3.95	\$3.49
199639	DB9 male-to-female w/ thumbscrews	6	Black	5.25	4.75	4.25
25701	DB9 male-to-female w/ thumbscrews	6	Beige	6.95	6.25	5.49
148516	DB9 male-to-female w/ thumbscrews	10	Beige	7.95	6.95	6.25
181666	DB9 male-to-male	10	Beige	6.95	6.25	5.49
181286	DB15 male-to-male	6	Gray	6.55	5.95	5.25
181359	DB15 male-to-female	6	Gray	5.49	4.95	4.45
134042	HDDB15 male w/ thumbscrews to female w/ hex nuts	6	Beige	4.95	4.45	3.95
66165	HDDB15 male-to-female w/ thumbscrews	6	Beige	7.95	6.95	6.25
148532	HDDB15 male-to-female w/ thumbscrews	10	Beige	8.95	7.95	6.95
66174	HDDB15 male-to-male	6	Beige	6.95	6.25	5.49
148523	HDDB15 male-to-male	10	Beige	5.95	5.35	4.79
224267	DB25 female-to-female w/ thumbscrews	6	Gray	7.95	6.95	5.95
164291	DB25 male-to-female w/ thumbscrews	3	Gray	3.95	3.55	3.05
175291	DB25 male-to-female w/ thumbscrews	3	Black	3.75	3.35	2.95
67257	DB25 male-to-female w/ thumbscrews	6	Gray	7.95	6.95	5.95
39511	DB25 male-to-female w/ thumbscrews	10	Gray	7.95	6.95	6.25
177279	DB25 male-to-female w/ thumbscrews	15	Gray	7.95	6.95	6.25
101996	DB25 male-to-female w/ thumbscrews	25	Gray	11.95	10.75	9.65
181201	DB25 male-to-female w/ thumbscrews	50	Gray	19.95	17.95	15.95
174001	DB25 male-to-male w/ thumbscrews	3	Black	4.95	4.45	3.95
401138	DB25 male-to-male w/ thumbscrews	3	Gray	3.95	3.49	2.95
65788	DB25 male-to-male w/ thumbscrews	6	Gray	7.75	6.95	6.25
39538	DB25 male-to-male w/ thumbscrews	10	Gray	6.95	6.25	5.49
179979	DB25 male-to-male w/ thumbscrews	15	Gray	5.95	5.25	4.75
67071	DB25 male-to-male w/ thumbscrews	25	Gray	9.95	8.95	7.95
180435	DB25 male-to-male w/ thumbscrews	50	Gray	14.95	13.45	11.95
180611	DC37 male to male	6	Gray	4.95	4.49	3.95
181295	DC37 male-to-female	6	Gray	5.95	5.35	4.75

## Serial Cables

132346	DB9 female-to-female w/ thumbscrews	6	Beige	\$4.95	\$4.45	\$3.95
196366	DB9 female-to-female w/ thumbscrews	10	Beige	6.95	6.25	5.49

## Monitor Cable

66157	DB9 male-to-male w/ thumbscrews	6	Beige	\$4.95	\$4.45	\$3.95
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## IEEE 1284 Cables

161630	DB25 male-to-male serial	10	Black	\$1.95	\$1.75	\$1.59
130067	DB25 male-Centronics parallel 36M	6	Beige	2.95	2.65	2.25

## DB9-Pin Test Cable

- DB9 M to DB9 F (6')

- Pin outs: 1-3, 2-2, 4-5

Part No.	Description	1	10
162915	DB9 male to DB9 female	\$0.55	\$0.49



## USB/DB25-to-Centronics Parallel Printer Cables

155352: USB-A Male to 36-pin Male Centronics

- Full compliance with USB spec Ver. 1.
- Applicable to standard and bidirectional printers



28716/28708: DB25 Male to 36-pin Male Centronics

- IBM PC/XT and higher compatibles

Part No.	Description	1	10
155352	6' 36-pin Centronics to USB	\$9.95	\$8.95
28716	6' 36-pin Centronics to DB25	4.95	4.49
28708	15' 36-pin Centronics to DB25	1.49	1.35

## DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



Part No.	Description	1	10	100
109584	1' serial, beige	\$2.95	\$2.65	\$2.25
189333	3' serial, beige	3.25	2.95	2.49
31722	6' serial, beige	4.95	4.49	3.95
1945575	6' serial, gray	4.49	3.95	2.95
155522	10' serial, beige	5.95	5.35	4.79



JAMECO ValuePro

## USB 2.0 Cables



- Higher transfer rate up to 480Mbps
- Backward compatible with USB 1.1 products

### USB-A Male to USB-A Male

\*Web Code: NAV

Part No.	Description	1	10	25
326474	3' cable beige	\$1.95	\$1.75	\$1.59
229682	6' cable beige	2.05	1.85	1.65
222033	6' cable black	2.05	1.85	1.65
229690	10' cable beige	2.35	2.09	1.85
229569	10' cable clear	2.35	2.09	1.85
222050	15' cable black	3.25	2.95	2.65
229577	15' cable clear	3.25	2.95	2.65

### USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711	3' cable beige	\$1.95	\$1.75	\$1.59
222608	3' cable black	1.95	1.75	1.59
229585	3' cable clear	1.95	1.75	1.59
229730	6' cable beige	2.05	1.85	1.65
222010	6' cable black	2.05	1.85	1.65
229594	6' cable clear	2.05	1.85	1.65
229738	10' cable beige	2.35	2.09	1.85
222018	10' cable black	2.35	2.09	1.85
229607	10' cable clear	2.35	2.09	1.85
229762	15' cable beige	3.25	2.95	2.65
222026	15' cable black	3.25	2.95	2.65
229614	15' cable clear	3.25	2.95	2.65

### USB-A Male to USB-A Female

Part No.	Description	1	10	25
326482	3' cable beige	\$1.95	\$1.75	\$1.59
229771	6' cable beige	2.05	1.85	1.65
222068	6' cable black	2.05	1.85	1.65
229623	6' cable clear	2.05	1.85	1.65
229789	10' cable beige	2.45	2.19	1.95
222076	10' cable black	2.45	2.19	1.95
229631	10' cable clear	2.25	1.95	1.75
229797	15' cable beige	3.25	2.95	2.65
222084	15' cable black	3.25	2.95	2.65
229649	15' cable clear	3.25	2.95	2.65

### USB-A Male

- For use w/ digital cameras, memory card readers, etc.
- Color: black



Part No.	Product No.	1	10	50
673715	6' mini 4-pin	\$3.95	\$3.59	\$3.39
2081481	5'6" mini 5-pin	2.25	1.95	1.65
673694	6' mini 5-pin	2.75	2.45	2.25

JAMECO ValuePro

## IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters max. length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.



\*Web Code: EAJ

Part No.	Description	Color	1	10	25
73155	1 meter	Gray	\$39.95	\$35.95	\$31.95
115782	2 meter	Gray	41.95	36.95	32.95
115802	4 meter	Gray	42.95	37.95	33.95

## USB 2.0 Active Repeater Cable

This is an active repeater cable and not a passive extension cable for connecting USB devices to your computer. The repeater cable regenerates the USB signal for maximum reliability and performance over extended distances at maximum transfer rates of 480Mbps.



- Repeater cable length: 5m (16.4 ft.)
- Cascaded up to 5 to extend distance to 25m (81 ft.) between USB device and computer
- Regenerate the USB signal for maximum reliability and performance over extended distances

**Requirements:** Desktop or laptop with available USB port, Windows® 98SE/ME/2000/XP or Mac OS X

Part No.	Cross Ref. No.	1	10
2075840	AR2500	\$13.95	\$12.55

## USB Link Adapters

- Easy file sharing and data transfer between PCs via USB
- Length: 6 ft.
- Full compliance with USB specification V1.1 and 2.0
- Supports two-way data transfer
- Supports suspend & resume power management



**1944556:** Vista for Easy File Transfer

- Designed to work with Windows Easy Transfer, a new feature on Windows® Vista.
- Supports data transfer up to 480Mbps

**Requirements:** Intel® Pentium® 1GHz or faster, 128MB RAM or higher, USB 2.0 port, Windows® XP/Vista

**1944548:** Host to Host for Easy File Sharing

- Suitable for mobile PC and SOHO environment
- High speed performance with data transfer rate of over 15Mbytes/sec.

**Requirements:** Pentium® 233MHz or faster, 64MB of RAM, USB 2.0 port, Windows® 98SE/ME/200/XP

Part No.	Cross Ref. No.	1	10
1944556	AN2230	\$21.95	\$19.75
1944548	AN2210	21.95	19.75

## High Speed USB Extender Cable

An active device where the USB signals going in and out of the extension cable are buffered to assure signal quality and adherence to electrical and timing specs.



- Full compliance with USB spec Ver. 2.0/1.1
- Supports 480Mbit/s high speed 12Mbit/s full speed, and 1.5Mbit/s low speed serial data communication
- One upstream port and one downstream port
- Windows® 98 & higher or Mac® OS compatible
- Supports plug & play and hot-swap functions
- USB-A male to USB-A female
- Bus power mode • Length: 16 ft.

Part No.	Product No.	1	10
1919174	10U2-24116	\$18.95	\$16.95

## USB Gender Adapter

- USB-A female to USB-A female
- Dimensions: 1.5"L x 0.7"W



Part No.	Description	1	10	25
316806	USB-A female	\$2.95	\$2.65	\$2.39

JAMECO ValuePro

## Serial Null Modem Cables

- Molded type connectors
- Color: gray

\*Web Code: ABE

**181404/180698** Pin outs:  
1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7

**181438** Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)

**180582** Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial printer null modem)

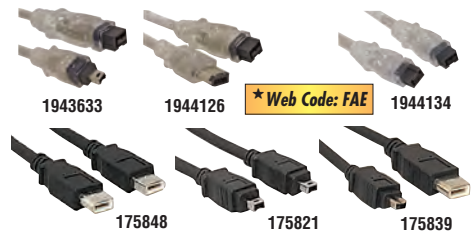
**180742** Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8



Part No.	Mfr.	Description	1	10	50
181404	ValuePro	6' DB9 F to DB9 F	\$5.55	\$4.95	\$4.49
180698	ValuePro	10' DB9 F to DB9 F	6.75	5.95	5.45
181438	Various	6' DB25 M to DB9 F	5.55	4.95	4.49
180742	ValuePro	10' DB25 F to DB9 F	6.95	6.25	5.65
180582	ValuePro	10' DB25 M to DB9 F	5.95	5.35	4.75

JAMECO ValuePro

## IEEE Firewire Cables



\*Web Code: FAE

- IEEE-1394 compliant
- UL approved
- Length: 6'
- Male to male

### Clear

Part No.	Cross Ref. No.	Description	1	10	25
1943633	10E4-940-06-C	9-pin/4-pin	\$11.95	\$10.75	\$9.65
1944126	10E4-960-06-C	9-pin/6-pin	11.95	10.75	9.65
1944134	10E4-991-06-C	9-pin/9-pin	16.95	15.25	13.75

### Black

Part No.	Cross Ref. No.	Description	1	10	25
175848	10E3-01106-R	6-pin/6-pin	\$5.95	\$5.35	\$4.75
175821	10E3-04106-R	4-pin/4-pin	2.95	2.65	2.39
175839	10E3-02106-R	4-pin/6-pin	2.95	2.65	2.39

## Cable Assemblies



### 75Ω RG-59/U BNC – BNC

\*Web Code: CCA

Part No.	Mfr.	Length	1	10	50
262730	ValuePro	25'	\$7.95	\$6.95	\$6.49
262748	ValuePro	50'	9.95	8.95	7.95

### 75Ω BNC – BNC and Jack-to-Plug

Part No.	Mfr.	Length	1	10
1581409	Elyssa	100'	\$24.95	\$22.45

### 75Ω RG-59 F-Type

Part No.	Mfr.	Length	1	10
85585	ValuePro	3'	\$0.49	\$0.45

*Our goal is to provide you with more of what you want. Let us know how we can better serve your electronic needs. Send feedback to Feedback@Jameco.com.*

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

## JAMECO ValuePro USB-A Cable w/ Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long



Part No.	Description	1	10	25
144813	Female panel mount .....	\$4.25	\$3.75	\$3.25
319652	Male panel mount .....	1.95	1.75	1.49

## JAMECO ValuePro USB-to-DB9 Serial Adapter

- USB-A to DB9 male
- Length: 13"
- Supports automatic handshake mode
- Over 230kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters



\* Web Code: NAV

Part No.	Description	1	10
387954	USB-A to DB9.....	\$18.95	\$16.95

## Audio/Video Adapter

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Support both NTSC or PAL video signals
- Signal pairs: video (BNC), CAT pairs 4(RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)



**Includes:** Mounting hardware

Part No.	Description	1	10
220881	BNC/RJ45.....	\$24.95	\$22.45

## 2.4GHz Wireless Audio/Video Transmitter & Receiver

- Frequency range: 2413MHz to 2470MHz
- Video input: 1Vp-p
- Audio input: 2Vp-p
- Impedance: 50Ω
- Output power: 1 watt

**Includes:** 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

**179864:**

- For use with 2.4GHz cameras, transmitters and receivers
- Gain: 3dB; unidirectional

**2081633:**

- Frequency range: 2.4GHz - 2.5GHz
- Reverse polarity SMA plug
- Polarization: linear, vertical
- Power handling: 2 watt
- Gain: 2dBi
- Impedance: 50Ω
- VSWR: 2.0:1 max.



1952601



289852

Part No.	Description	1	5
289852	Wireless audio/video tran. ....	\$159.95	\$143.95
1952601	Wireless audio/video receiver ...	79.95	71.95
179864	2.4GHz SMA RF antenna .....	5.95	5.35
2081633	2.4GHz SMA antenna .....	1.95	1.75

## Dual Page Color Quad Processor

- Signal format: NTSC/PAL color
- Alarm input: 8
- 7-character titles
- Display rate: 60fps/50fps
- 4-channels with loop
- Video outputs selectable: 1Vp-p 75Ω
- Video inputs: 1Vp-p, 75Ω
- Memory 1024 x 512
- Switching interval: 1 to 99 seconds
- BNC video connectors
- Date time generator



Part No.	Product No.	1	5
638240	15-QC43.....	\$189.95	\$169.95

## Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- Electronic shutter: 1/120,000 sec.
- 510(H) x 492(V) EIA signal format
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω
- Vertical freq.: 60Hz
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable
- Auto-tracing white balance
- S/N ratio: 52dB
- 2X digital zoom



**Power Requirements:** 12VDC @ 150mA

Part No.	Product No.	1	5
395461	15-CC25 .....	\$119.95	\$107.95

## SONY® Color CCD Camera

### Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system w/510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Video output: 1Vp-p; 75Ω

**Requires:** 12VDC @ 120mA

power supply (recommend P/N 163993, pg 120)

**Includes:** Power/signal cable & mounting hardware

Part No.	Description	1	5
213436	Enclosed color camera .....	\$154.95	\$139.95



## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Sensitivity: 0.7 lux/F2.0
- Power supply: 12VDC (recommend P/N 162996, pg 122)
- Video output: 1Vp-p, composite video 75Ω
- Power consumption: 110mA
- FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)
- S/N ratio: 46dB
- Size: 1.3"L x 1.3"W x 1.2"H



Part No.	Product No.	1	5
171029	15-BB13L-1 .....	\$44.95	\$39.95

## Mini Wireless Color Camera

This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150' (unobstructed) range and 9-volt battery power.



Part No.	Product No.	1	5
249025	203CA .....	\$54.95	\$49.95

## Mounting Brackets for Enclosed Camera

- Material: white plastic
- Swivel angle: 360°
- Tilt angle: 90°
- For use with enclosed cameras



Part No.	Max Load	Height	1	10
170982	6.6 lbs.	2.0"	\$3.95	\$3.49

\* Outdoor Camera Enclosures— Enter Web Code LBB

\* Video Accessories — Enter Web Code YBE

## ATEN SVGA Monitor Splitter

Duplicate video signals from one source to monitors up to 210' away.

Compatible with SVGA, VGA and multisync monitors.

- 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors



Part No.	Description	Price
176866	2-ch. monitor splitter .....	\$49.95

## 3.5" Color LCD Video Monitor

The display monitor operates on a standard composite video signal from VCR, video camera, video game, or navigation system: ideal for mounting in seat backs & custom enclosures.



- Thin film technology color LCD
- High resolution (480H x 234V) flat screen
- Back light cold cathode fluorescent lamp
- Video color system: NTSC/PAL auto switch
- Power consumption: 3-watt
- Weight: 5.3 ounces
- Input signal: 1.0Vp-p; 75
- Power supply: 12V ±10%
- Active area: 3.2"W x 2.4"H
- Dimensions: 3.9"L x 2.8"H x 0.8"D

\* Web Code: VBF

Part No.	Product No.	1	10
1928257	15-MC04.....	\$149.95	\$134.95

## Clearance Center



Can't find what you are looking for in the catalog? Check out the thousands of products online priced near cost.

Large Quantities Heavily Discounted

Factory Overruns

Jameco Excess Inventory

Discontinued Product Lines

[www.Jameco.com/Clearance](http://www.Jameco.com/Clearance)



## CMU Camera

- Tracks the position and size of a colorful or bright object
- Measures the RGB or YUV statistics of an image region
- Dumps a bitmap showing the shape of the tracked object
- Automatically acquire and tracks the first object it sees
- Dumps a complete image over the serial port
- Physically tracks using a directly connected servo
- Supports multiple CPU boards on one camera for parallel processing



Part No.	Description	1	5
358467	3.5" color LCD monitor ...	\$139.95	\$124.95

Blue Part No. = Limited Quantity Available

## Color Dome Cameras

- 512H x 492V
- Video output: 1Vp-p, 75Ω
- NTSC format
- 319855/171037: 3.6mm lens with F2.0; 1581396: 4mm lens
- Horizontal line resolution: 319855 - 380 lines; 171037 - 330 lines; 1581396 - 420 lines
- Lux: 1581396 - 0.1; 171037 - 2



Part No.	Product No.	Description	Price
319855	15-2400CTD	1/4" CCD, 2.4GHz wireless	\$149.95
171037	15-CD25-1	1/4" CCD, mini	99.95

## 2.4GHz Wireless Weatherproof Color Camera with PIR

- NTSC format
- 1/4" CCD image sensor
- For indoor and outdoor use
- 380 horizontal line resolution
- 3 lux with F2.0; 0.5 lux with F1.2
- Transmitter output power: 10mW
- Output impedance: 50Ω typical
- Pulse counter w/ automatic reset



Includes: 12VDC @ 500mA power supply and mounting hardware

Part No.	Mfr. Part No.	Audio Output	Video Output	Size (W x D x H)	1	5
319871	15-2400CTH	2Vp-p max	1Vp-p, 75Ω	4.2" x 5.0" x 4.8"	\$169.95	\$149.95

## Waterproof Tube-Style IR Color Camera

### NTSC Format

- For indoor and outdoor use
- 1/4" CCD image sensor
- 420 horizontal line resolution
- 59.94Hz vertical frequency
- Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- 512(H) x 492(V)
- Internal synchronization
- Up to 1/100,00 sec. electronic shutter
- Auto white balance and gain control
- 880 ~ 940nm infrared wavelength
- Video output: 1Vp-p, 75Ω
- S/N ratio: >48dB
- 4.3mm lens with F1.8
- Size: 2.1"Dia x 3.8"L



Requires: 12VDC @ 160mA power supply (recommend P/N 162996, pg 122)

Includes: Mounting hardware

Part No.	Mfr. Part No.	1	10
319901	15-CM25WM	\$169.95	\$149.95

\*Cameras — Enter Web Code MBB

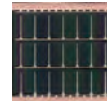
# Solar Products

## PowerFilm. Flexible Thin Film Solar Modules

### Wireless Electronics Series

The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. This module is lightweight, paper thin and durable.

\*Web Code: QEM



Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
227985	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.95	\$3.49	\$3.15
227993	TX3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	3.95	3.49	3.15
171061	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.95	5.35	4.79
228013	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	7.95	6.95	6.45
228030	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.95	5.35	4.79
228056	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	17.95	16.95	15.25
228064	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	12.95	10.95	9.95
228072	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	19.95	17.95	15.95
228099	MP7.2-150	7.2	200	10 x 5.9 x .02	253 x 150 x 0.6	39.95	35.95	31.95
228101	MPT15-75	15.4	50	10 x 3.0 x .02	253 x 75 x 0.6	19.95	17.95	15.95
228110	MPT15-150	15.4	100	10 x 5.9 x .02	253 x 150 x 0.6	39.95	35.95	31.95

### WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules features rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.

228161

Part No.	Mfr. Part No.	Operating Voltage	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228161	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$34.95	\$31.49	\$28.25
228179	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	49.95	44.95	39.95
228195	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	54.95	49.45	44.49
228208	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.95	89.95	79.95



## H-Racer 2.0

Build and drive your own hydrogen fuel cell car! Discover a new generation of H-Racer, including a new hydrogen refueling station and solar panels! Ride the wave of the future with the new H-Racer 2.0.

- The world's smallest hydrogen fuel cell car
- New remote control steering
- Size: 6.13"L x 2.75"W x 2.0"H

Requires: 2 AA batteries (not included, recommend P/N 198707, pg 146)

Part No.	Product No.	Description	1	5
2095007	PCJJ-23	Intermediate level, 17-pieces	\$119.95	\$109.95



NEW MARKED IN PINK



## Alternative Energy Kit

Discover the science of clean renewable energy! Combine solar, wind and fuel cell technology to create a miniature renewable energy system. With the renewable energy education set, you learn and visualize the workings of clean energy principles!

- Combine electronics, chemistry & physics in one kit
- Electric fan module
- Hydrogen fuel cell module
- Water electrolyzer module
- Solar cell module
- Wind turbine module



Part No.	Product No.	Description	1	5
2095015	FCJJ-27	Intermediate level, 56-pieces	\$199.95	\$194.95

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





Tyrannosaurus Kit

242923



Soccer Insect Kit

358379



Rocket Kit

192567



Running Micro Bug

200328



Binary Disk Player

402077



Boxing Robot

401533



CYBUG Scarab

358045



The Spider

140821



iBotz PICO

404478



Robotic Arm

Controller

157366



Motor Gearbox

358248



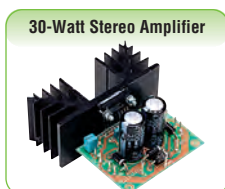
FM Transmitter

117604



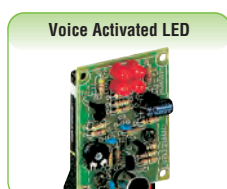
FM Radio Kit

211772



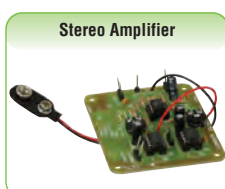
30-Watt Stereo Amplifier

129138



Voice Activated LED

147571



Stereo Amplifier

662670



## Mindstorms NXT 2.0

Create the smartest, strongest and most advanced LEGO robots with this new Lego Mindstorms NXT 2.0. Bigger and revised element assortment of 619, 16 building and programming challenges for 4 new fun and action packed robot models.

- NXT 32-bit microcontroller with 256k memory
- 3 interactive servo motors with built-in rotation sensors
- 1 ultrasonic sensor • 2 touch sensors
- Color sensor with triple functionality: color sensor/light sensor/color lamp
- Support for Bluetooth, USB 2.0



\* Educational & Robotic Kits — Enter Web Code ERK

Part No.	Mfr. Part No.	No. of Pieces	Price
2082644	8547	619	\$279.95

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5

### Robotic and Computer Control Kits

242923	21-601	Mechanical Wooden Tyrannosaurus kit	—	BEG	1.5 x 3.0 x 6.5	0.9	\$14.95	\$13.45
242915	21-602	Mechanical Wooden Stegosaurus kit	—	BEG	1.5 x 3.0 x 7.0	0.9	14.95	13.45
357341	3-882	Sound-Activated Jungle Robot kit	87	BEG	—	—	28.95	25.95
358379	71107	Six-Legged Remote Control Soccer Insect kit	40	BEG	—	1.1	37.95	33.95
192567	7769	Rocket Robot with sound-controlled navigation	73	BEG	4.5 x 5.1 x 3.3	1.0	28.95	25.95
358192	70068	Wall Hugging Mouse Robot kit	—	—	—	—	19.95	17.95
358272	70162	Design a robot w/ this RC Robot Construction set! Lift, scoop and drop all kinds of stuff.	144	BEG	—	1.0	52.95	47.95
200328	MK127	Light-Following Running Micro Bug kit	26	INT	4.0 x 2.4	0.2	18.95	16.95
200336	MK129	Light-Seeking Crawling Micro Bug kit	29	INT	4.0 x 2.4	0.2	19.95	17.95
239476	K2633	Relay Card kit (req. pwr supply P/N 133891 pg 120)	29	INT	3.0 x 2.7	0.4	19.95	17.95
357325	OWI-9727	Build this Spider 3 Walker Robot and watch it intelligently avoid any obstacle it faces.	110	INT	5.5 x 3.9 x 4.3	1.3	62.95	56.95
402077	OWI-9875	Binary Disk Player Robot	75	INT	—	1.9	37.95	33.95
386708	21-880	Line Tracking Robot Mouse (solder required)	—	INT	3 x 3 x 3	0.9	22.95	20.95
358352	75020	Line Tracing Snail Robot kit	—	INT	—	2.0	38.95	34.95
401533	71110	Boxing Robot kit (single), 2-channel	84	INT	—	0.4	35.95	32.35
401541	71113	Box your friends with this kit of Boxing Robots Remote controlled, they're fun for everyone.	170	INT	—	0.8	59.95	53.95
358045	CYBUG	The CYBUG Scarab kit uses touch and light sensors to find or avoid light. Requires soldering.	83	EXP	4.5 x 4	0.4	49.95	44.95
386610	21-886	Escape Robot kit	—	EXP	5 x 5 x 5	0.9	19.95	17.95
140821	972K	Build the Spider 3 Walker Robot & watch it intelligently avoid any obstacle it faces. Requires soldering.	158	EXP	12.0 x 7.0 x 3.5	1.2	62.95	56.95
357270	27400	SumoBot kit, fully programmable	64	EXP	7.9 x 7.9	1.5	199.95	179.95
404478	MR-1017	The PICO is a build-it-yourself programmable robot. Program it to do anything. The sky's the limit!	42	EXP	5.8 x 6.0 x 4.4	3.2	119.95	107.95
199603	769K	Rocket Robot advanced w/ sound-controlled navigation	96	EXP	4.5 x 5.5 x 3.3	1.0	31.95	28.75
386572	21-884	Contact Sensing Scarab Robot set	107	EXP	—	0.9	17.95	15.95
120678	K6501	Remote control by Phone kit	116	EXP	4.1 x 5.1	0.7	74.95	67.95
157366	007	Robotic Arm kit (unassembled)	106	EXP	14.2 x 20.1	4.5	85.95	76.95
159345	007/IBM	Robotic Arm Interface kit for P/N 157366, above	5	EXP	3 x 2 x 1	1.0	91.95	82.95

### Power Supply and Motor Kits

181833	VM-1	DC Voltage Monitor kit with 7 LED display	46	BEG	2.7 x 1.3	0.2	\$9.95	\$8.95
117621	K1823	1.5A @ 1.5-35VDC Power Supply kit	12	INT	2.1 x 2.1	0.3	14.95	13.45
20626	JE215	Dual adjust regulated Power Supply kit	48	INT	5.1 x 3.5 x 2.0	2.1	24.95	22.49
127829	GMC-1102	Motor Speed Control kit; powers up to 5A @ 100VDC	35	INT	3.6 x 2.3 x 1.2	—	23.95	21.55
239521	K8012	Lead Acid Battery Charger kit	62	INT	3.8 x 5.5 x 1.6	—	54.95	49.95
160047	3-301	Mini-Dual H-Bridge Motor Driver kit	31	INT	1.13 x 1.0	0.1	24.95	22.49
120539	K8004	Pulse Width Modulator kit for DC motor control	40	EXP	3.3 x 1.9 x 1.8	0.5	24.95	22.45
357851	3-773	Maxi-Dual H-Bridge Motor Driver kit	54	EXP	—	0.2	59.95	53.95
358248	70097	Twin Motor Gearbox kit	61	EXP	—	0.3	14.95	13.45

### Audio Transmitters, Amplifier, Sound Generator and Detection Kits

151204	AA-1	Super Snooper Big Ear Audio Amplifier kit	17	INT	1.8 x 1.0 x 0.6	—	\$10.95	\$9.95
151239	FMST-100	FM Stereo Transmitter Mini kit	37	INT	2.7 x 2.0	—	31.95	28.95
117604	K1771	FM Transmitter kit (req. mic. & 9-14VDC pwr supply)	26	INT	1.8 x 2.8	—	19.95	17.95
211772	MK118	FM Radio kit	65	INT	4.8 x 3.3	—	29.95	26.95
127562	K4401	Sound Generator kit with 10 unique sounds	61	INT	2.8 x 2.8	—	32.95	29.95
117612	K1803	Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply)	17	INT	1.2 x 1.8	—	9.95	8.95
127255	K4001	7W Amplifier kit (req. 15VDC @ 0.5A pwr supply)	22	INT	2.2 x 1.4	—	19.95	17.95
129138	K4003	30W Stereo Pwr Amp. (req. 2x 12VDC @ 2A pwr supplies)	38	INT	2.8 x 2.0	—	33.95	30.95
147571	MK103	Voice Activated LED kit	33	INT	2.5 x 1.6 x 1.4	0.1	8.95	7.95
662670	EBST-11	Audio Stereo Amplifier kit	32	INT	2.8 x 2.3	—	9.95	8.95
177092	IR-2	Infrared Transmitter & Receiver kit (req. 9V battery)	26	—	1.0 x 0.8	—	24.95	22.45

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

**NEW**  
MARKED IN PINK

## Electronic Kits (Continued)

★ Web Code: **ERK**

Part No.	Mfr. P/N	Description	No. of Pieces	Exp. Level	Dimensions (L" x W" x H")	Wt. (lbs.)	Pricing	
							1	5
Test and Measurement Kits								
662725	EBLOG-300A	Logic Probe kit	13	BEG	4.0"L x 0.75"Dia.	—	\$10.95	\$9.95
20685	JE2206	Function Generator kit	21	INT	4.1 x 1.5	0.1	27.95	24.95
129091	K7102	Metal Detector kit, sensitive within 8cm (req. 9V battery)	22	INT	2.1 x 2.1	0.4	17.95	15.95

## Distance and Light Kits

157964	LED1007	IR Red Illuminator kit	41	BEG	2" Dia.	0.1	15.95	14.49
236081	MK145	Flashing Pumpkin kit	71	BEG	3.2 x 4.0 x 1.3	—	11.95	10.95
147635	MK100	Flashing Christmas Tree kit	30	BEG	4.0 x 2.4 x 1.0	—	6.95	6.25
211781	MK130	3D Flashing Christmas Tree kit	36	INT	3.1 x 3.5 x 4.0	—	9.95	8.95
236072	MK117	Deluxe Christmas Tree kit	208	INT	3.2 x 5.6	—	19.95	18.95
200310	MK124	Scrolling Message kit	76	INT	3.5 x 2.6 x 1.8	0.2	22.95	20.95
147555	MK101	Flashing LED Dweetheart kit	46	INT	1.3 x 2.3 x 1.3	0.1	9.95	8.95
147580	MK102	Flashing LED kit	23	INT	1.3 x 1.4 x 0.6	0.1	7.95	6.95
282861	28015	Ping Ultrasonic Sensor	—	INT	0.9 x 1.8 x 0.6	0.2	29.95	27.95
151482	OEM-ANN1	Use this Distance Sensor Module to ultrasonically sense distance or size with your computer.	—	INT	2.8 x 1.8 x 0.9	—	163.95	155.95
147643	K4304	10-LED Mono VU Meter kit	36	INT	2.7" x 1.4"	—	24.95	22.45
662733	SDF-1	Radio Direction Finder	69	INT	—	—	39.95	35.95
129120	K3502	Parking Radar kit	55	INT	4.9 x 1.9	—	45.95	40.95
662709	STOP-1	Stop Light Controller kit	36	INT	2.8 x 2.3	—	17.95	15.95
645221	K8063	Build this 2-Digit LED Display and show any 2-digit number with your computer. Requires soldering.	46	INT	2.9 x 2.3 x 1.3	—	54.95	49.95
211764	MK116	Santa Sleigh and Reindeer kit	201	EXP	5.7 x 3.2	—	19.95	17.95

## Miscellaneous

358299	70100	Tank and Track Wheel set	40	BEG	—	—	\$9.95	\$8.95
358213	72001	Planetary Gearbox kit	—	INT	—	—	19.95	17.95
358336	70144	Ball Caster set	60	INT	—	0.6	6.95	6.25
127554	K6400	Code Lock kit	67	INT	1.7"L x 1.8"W	0.5	34.95	31.49
645263	VM110	Control your electronics from your computer w/ this USB Interface, 7 inputs and 10 outputs!	1	EXP	5.7 x 3.0 x 0.8	—	79.95	71.95
357683	3-203	Frankenserial Interface kit	25	—	—	—	39.95	35.95
386530	DS-MMC	Log your electronics experiments to an SD or MMC card with µMMC Serial Data Module!	1	EXP	2.0 x 1.25	0.2	54.95	49.95
358432	TELCMD-USB	Telecommander Software	—	—	—	0.2	29.95	26.95
385916	MS430	Mechanical Planet Robot (assembled)	—	—	9.0" Tall	0.8	14.95	13.45
404419	165441	Serve tea with this mechanical wind-up Tea Serving Robot	1	BEG	10.0"H x 4.0"W	2.1	99.95	89.95



## Off Roader

Build an advanced, muscular truck full of working functions! Use the built-in power functions to adjust the ground clearance, turn the front winch, or turn on the LED headlights! The gull-wing doors, the hatch and hood can all be opened!



**NEW**  
MARKED IN PINK

- Features V8 engine with moving pistons and working steering system
- Rebuilds into a buggy!
- 15" (39cm) long • Difficulty level: intermediate

**Includes:** Battery box, lights, switch & motor

**Requires:** 6 AA batteries (not included, recommend P/N 198707, pg 146)

Part No.	Product No.	1	5
2095031	8297	\$129.95	\$119.95

## Robotic Arm

Create and take command of the Robotic Arm Edge, the new, incredibly flexible robotic arm you can build yourself. Find gadgets all around the base tith, the new search light and the enormous reach of the arm!



**NEW**  
MARKED IN PINK

- Five switch wired controller
- Base rotation of 270°
- Lifts 100 grams (3.5 ozs.)
- Horizontal reach of 12.6 inches
- Extensive elbow range of 300°
- 187-piece kit • Difficulty level: intermediate

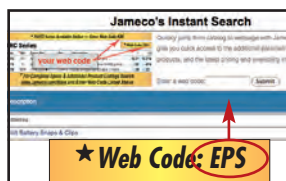
**Requires:** 4 D batteries (not included, recommend P/N 215845, pg 146)

Part No.	Product No.	1	5
2095023	OWI-535	\$49.95	\$44.95

## Web Enabled Catalog

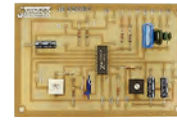
Enter web codes online for additional product listings & specifications. Look for the web code box on the home page.

[www.Jameco.com/More](http://www.Jameco.com/More)



★ Web Code: **EPS**

## Function Generator



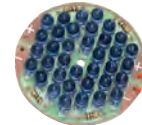
20685

## Metal Detector



129091

## IR Red Illuminator



157964

## Flashing Pumpkin Kit



236081

## 3D Flashing Christmas Tree



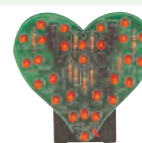
211781

## Deluxe Christmas Tree Kit



236072

## LED Sweetheart Kit



147555

## Distance Sensor



151482

## Santa Sleigh & Reindeer Kit



211764

## USB Interface



645263

## Radio Direction Finder Kit



A direction finder antenna that connects to any UHF/VHF Ham Radio or Scanner; great for finding hidden transmitters that are raising havoc with your repeater. Tune your radio to the frequency of the transmitter you are trying to locate (from 140MHz to 500MHz); you will hear a tone and the transmitter modulation at the same time. To further check your progress, the signal level meter of the radio should rise.

- 69-pieces
- Expert level

Part No.	Product No.	1	5
662733	SDF-1	\$39.95	\$35.95

## Wide Band Amplifier Kit

- 1MHz to 1.5GHz, 7.5dB NF
- 1dB compression = +11dBm
- Gain: 1MHz - 8dB to 1.5GHz - 5dB
- Power requirements: 12VDC @ 50mA
- 7-piece kit • Difficulty level: intermediate



Part No.	Product No.	Dimensions	Price
662750	WBA4	1.2"L x 0.8"W	\$14.95

★ For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above





## Green Laser Pointer

Class IIIa Laser Product

Uses a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology. Projects a green beam so powerful you can see it against a clear night sky.

- Output wavelength: 532nm • Output power: <5mW
- 90-day manufacturer's warranty

**Includes:** Metal gift box, clip and 2 AAA batteries

Part No.	Mfr. Part No.	1	10
223731	5608	\$99.95	\$89.95

## Laser Diode

- Optical output power: 5mW maximum
- Operating current: 30mA
- 5.6mm packaging size
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- Beam divergence of 11° from center line max.



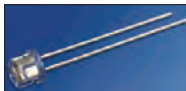
Class IIIa Laser Product

Part No.	Product No.	1	10	25
182932	ULD-6556	\$14.95	\$13.45	\$12.09



## 75W Laser Diode

- Nanostack pulsed laser diode
- Nanostack laser technology including multiple epitaxially stacked emitters
- Applications: range finding, security/surveillance, illumination/ignition, test and measurement systems
- Peak power: 75W • Laser aperture: 200µm x 100µm
- Number of emitters: 3 • Wavelength: 905nm



Class IIIa Laser Products

Part No.	Mfr. Part No.	1	10	100
1623584	SPL PL90-3	\$39.95	\$37.55	\$36.05

## 650nm Line and Dot Laser Diodes

143845/173243:

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

\* Web Code: LAZ



173243

Class IIIa Laser Product

**143845: Line laser module**

- Laser line width: 1mm • Laser fan angle: 60°

**173243: Cross hair laser diode module**

- Laser fan angle: 60° • Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

**143837: Module regulated power supply**

- Output: 5VDC @ 100mA
- Short-circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



143853

**143853: Laser module mount**

- X-Y tilt, θ movement
- Built to hold laser diode on target
- Tightening screw for tilt adjustment

Part No.	Description	1	10
143845	Line laser diode module	\$114.95	\$103.95
173243	Cross hair laser diode mod	\$109.95	\$99.95
143837	Regulated power supply	\$20.95	\$18.95
143853	Laser diode module mount	\$9.95	\$53.95



## Laser Pointer Pen

- Range up to 500 yards
- 670nm red laser

Class IIIa Laser Product



**Includes:** 2 AAA batteries

Part No.	Mfr. Part No.	Size (L" x Dia")	1	10
153605	4012	5.2 x 0.4	\$21.95	\$19.75

## Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia • One-year warranty



Class IIIa Laser Product

Part No.	Description	1	10
310519	Laser module, brass	\$44.95	\$39.95

## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD

\* Web Code: EBE



Part No.	Description	1	10	100
138288	.250" ID sleeve coupler	\$5.95	\$5.35	\$4.79

## Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually

162288 (Coupler)



162000 (Rubber Spider)

Part No.	Description	1	10	50
162288	.125" (3.18 mm) ID hub	\$1.49	\$1.35	\$1.19
161998	.197" (5.00 mm) ID hub	\$1.19	\$1.05	\$.95
162270	.250" (6.35 mm) ID hub	\$1.49	\$1.35	\$1.19
162000	Rubber spider	\$1.55	\$1.39	\$1.25

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

**168284 Includes:**

1 each of the following: 10 teeth with 3/32" bore size; 14 and 16 teeth with 1/8" bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size

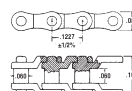
Part No.	Description	1	10	25
157104	1/4" bore aluminum mounting hub with set screws	\$7.95	\$6.95	\$6.25
168284	Gear set - 12 pieces (see description above)	\$39.95	\$34.95	\$31.95

## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



157075



157075



168276

**168276:** 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 3/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/2" bore size

Part No.	Description	1	10	25
157075	Drive chain (12" long)	\$10.95	\$9.95	\$8.95
168276	Sprocket set - 14 pieces (see description above)	\$29.95	\$26.95	\$23.95

## 60° Line Generating Lens

- Adjustable focus range: 50cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Length at 1 meter distance: 1.7 m



Class IIIa Laser Product

Part No.	Mfr. Part No.	1	10	25
134148	LO-60+	\$9.95	\$8.95	\$7.95

\* Lasers — Enter Web Code LAZ

## Thrust Washers

Use to reduce the friction that occurs in metal-to-metal contact, particularly where wheels join to axles.

401226



Part No.	I.D.	O.D.	# of Balls	Load Rating @ 15 RPM	1	10
401197	1/8"	.434"	6	89 lbs.	\$2.95	\$2.49
401200	3/16"	.497"	7	104 lbs.	2.95	2.49
401226	5/16"	.622"	9	134 lbs.	3.49	2.95
401234	3/8"	.809"	6	149 lbs.	3.95	3.49
401242	1/2"	.934"	8	198 lbs.	3.95	3.49

## Thermal Sensor Array

Provides a generalized snapshot of thermal characteristics of the sensed environment with a simplified output from an interface I2C connection.



- Radiant heat wavelength detection: 2µm to 22µm
- Heat source detection range: 2 meters (6 feet)
- Field of view: 41° by 6° • Size: 1.3"L x 0.7"W

Part No.	Product No.	1	5
387321	R255-TPA81	\$129.95	\$116.95

Blue Part No. = Limited Quantity Available

## 10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing



Part No.	Description	1	10	100
1810072	Gear set - 10 pieces	\$7.95	\$6.95	\$6.25

\* Gears — Enter Web Code PEF

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

**168284 Includes:**

1 each of the following: 10 teeth with 3/32" bore size; 14 and 16 teeth with 1/8" bore, 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/4" bore size

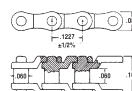
Part No.	Description	1	10	25
157104	1/4" bore aluminum mounting hub with set screws	\$7.95	\$6.95	\$6.25
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## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



157075



157075



168276

**168276:** 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 3/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/2" bore size

Part No.	Description	1	10	25
157075	Drive chain (12" long)	\$10.95	\$9.95	\$8.95
168276	Sprocket set - 14 pieces (see description above)	\$29.95	\$26.95	\$23.95

## 60° Line Generating Lens

- Adjustable focus range: 50cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Length at 1 meter distance: 1.7 m



Class IIIa Laser Product

Part No.	Mfr. Part No.	1	10	25
134148	LO-60+	\$9.95	\$8.95	\$7.95

\* Lasers — Enter Web Code LAZ

## Crossbow

## Accelerometer

Triple Axis

- Dynamic range & frequency response
- Current: 24mA
- Shielded cable: 2-foot pigtail
- Acceleration range: ±4g
- Size: 1.9"L x 1.0"W x 0.8"H



**Requires:** 5VDC power supply, not included (recommend P/N 164101, pg 122)

Part No.	Mfr. Part No.	1	10
141575	CXL04LP3	\$295.95	\$265.95



## MONDO•TRONICS

### Modulated Infrared Reflective Detector Kit

This kit detects object by means of a modulated beam of infrared light. Its output signal can sink up to 100mA for direct drive of an LED indicator, a relay or as an input to a microprocessor. An ideal proximity detector for miniature robots.

- Voltage: 5V nominal output
- Output: open collector, sink of up to 100mA
- Range: up to 3 ins. (depends on target reflectivity)
- High noise immunity
- 17-piece kit



**NEW**  
MARKED IN PINK

Part No.	Product No.	Difficulty Level	Size (L" x W" x H")	1	5
358580	3-337	Intermediate	0.9 x 0.8 x 0.4	\$22.95	\$19.95

### Nitinol Tension and Compression Springs

Activate them electrically or with hot and cold water

#### 357835: Tension

- 350 gram hanging mass, will stretch to a length of 60mm. When heated to 45-55°C with 2A it will shorten to 30mm and lift the mass
- Coil outside dia.: 6mm
- Wire dia.: 750µm



**MONDO•TRONICS**

#### 357843: Compression

- Can be pressed down to 16mm in length, then when heated to 55-65°C with 3A of current, it will push outward to 30mm while pushing 400 grams
- Coil outside dia.: 8mm
- Wire dia.: 950µm

Part No.	Description	1	5
357835	Tension springs (4 pack) .....	\$45.95	\$41.35
357843	Compression springs (4 pack)	45.95	41.35

## MONDO•TRONICS

### Nitinol SMA Wires

Untrained, as-drawn Ni-Ti (nickel titanium) wire. Form and anneal to your shape for springs, thermal actuators and memory wire.

- 3-401: 1 meter, 500µm wire
- 3-402: 1 meter, 100µm wire



Part No.	Product No.	1	5
357798	3-401 .....	\$16.95	\$15.25
357801	3-402 .....	29.95	26.95

## MONDO•TRONICS

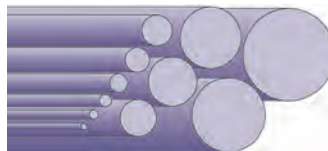
### Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

**How it works...** Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

- Length: 1 meter
- Includes:** Instructions

**NEW**  
MARKED IN PINK



**\* Web Code: WAU**

Part No.	Mir. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
									1	5
357561	025HT	5	25	1770	20	2	7	—	\$66.95	\$59.95
357456	025LT	1	25	1770	20	2	7	—	22.95	19.95
357931	075LT	1	75	200	100	815	80	40	19.95	17.95
357595	100HT	1	100	150	180	28	150	43	18.95	16.95
141321	100LT	1	100	150	180	28	150	33	17.95	15.95
357472	100LT	5	100	150	180	28	150	33	66.95	59.95
141874	150LT	1	150	50	400	62	330	20	17.95	15.95
160055	375LT	1	375	8	2750	393	2000	4	22.95	20.95
357712	375HT	1	375	8	2750	393	2000	5	22.95	20.95

\*Multiply by 0.0098 to get force in Newtons \*\*Cycles per minute, in still air, at 20° Centigrade

**\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above**

3 LEVELS OF SAVINGS		
NAME BRANDS	HOUSE BRANDS	FACTORY OVERRUN

### Multi-Port Serial to Ethernet Kit

This kit provides the hardware and software necessary for sensors and other serial devices to communicate via a LAN or other network. This kit includes a prototyping board, Dynamic C® development environment including a royalty-free TCP/IP stack with source code, sample applications, temperature sensor demo-board, required cables and assorted accessories.



- Configuration menu system
- Royalty-free TCP/IP stack with source code
- Serial-to-ethernet applications for: digital voltmeter, temp. sensor reader and binary and hexadecimal ASCII
- 3-step set up
- Software compatible w/ other Rabbit-based products
- Minimal ethernet experience required

Part No.	Product No.	Price
321656	101-09940	\$229.95

Blue Part No. = Limited Quantity Available

### Space Wings Kits

Sleek silvery mylar wings flap silently using only five centimeters of Muscle Wire. Perches on your computer, annoys cats or amuses babies. Space Wings stand 15cm tall and flap up to 36 times per minute.



141313

**Includes:** Printed circuit board, parts, & detailed instructions

## MONDO•TRONICS

Part No.	Prod. No.	Description	1	5
357827	3-619	Kit - solar space wings	\$23.95	\$21.95
141313	3-001	Kit - space wings .....	19.95	17.95

### Muscle Wire R & D Kit

Combine our Project Book and samples of 4 most popular sizes of wire and get big savings!

#### 357528:

- Five meters each of Flexinol 050, 100 & 150 LT wire
- One meter each of Flexinol 250 LT wire

#### 357659:

- Muscle Wires Project Book
- 20cm of Flexinol® 050
- 40cm each of 100 and 150 LT wire



**141330:** Muscle Wires Project Book 3rd Edition

Part No.	Description	1	5
357528	3-102 Muscle Wire R&D kit .....	\$225.95	\$199.95
357659	3-141 Project Book sample kit ....	34.95	31.45
141330	3-133 Project Book only .....	19.95	17.95

## PARALLAX

### Compass Module

Dual-axis magnetic field sensor built around the Hitachi HM55B IC.

- 6-bit (64 direction) resolution after calibration
- Built-in resistor protection for data pins eliminates bus conflict risks
- Compact/breadboard-friendly 0.3", 6-pin DIP package
- Compatible with all BASIC stamp, Javelin stamp and SX microcontrollers



Part No.	Description	1	5
653651	HM55B compass .....	\$29.95	\$26.95

## PARALLAX Propeller Professional Development Board

The Propeller Professional Development Board (PPDB) is a high-quality, fully-integrated development platform for the Propeller microcontroller. A wide variety of typical I/O (LEDs, buttons, etc.) devices and circuitry are built into PPDB, providing the developer with an ideal platform for rapid Propeller project development.

- 40-pin DIP socket for PX832A-D40 Propeller microcontroller
- 6 blue 16-segment LED displays (5V and 3.3V compatible)
- 16 blue discrete LEDs (5V and 3.3V compatible)
- L293D high current drivers for motors, solenoids, etc.
- 8 active-low pushbutton switches and DIP switches w/ 3.3V pull-ups
- 8 servo headers with selectable on-board/external power source
- DS1302 real time clock with battery back up/charging capability
- MAX4411 headphone amplifier with 1/8" stereo phone jack
- Two PS/2 ports with 5V power and 3.3V pull-ups on clock/data lines
- Ground terminal for oscilloscope ground clip
- Power requirements: 7-12VDC (12VDC @ 59mA)



- 24LC256 32K EEPROM
- Built-in USB programming interface
- Two 10K potentiometers
- 5V and 3.3V voltage regulators
- HDDB-15 connector for VGA monitor
- MAX3232E RS-232 DCE interface
- 5MHz crystal

Part No.	Product No.	Size (W" x H" x D")	1	10
2007126	32111	9.0 x 5.25 x 0.75	\$169.95	\$152.95

## PARALLAX BASIC Stamp Discovery Kit (USB)

The most popular BASIC Stamp microcontroller is the BS2-IC module - widely used in education, hobby, and industrial applications. This module has enough program space, execution speed, and I/O pins for most applications. The *What's a Microcontroller?* (WAM) parts and text kit provides over 40 activities designed to provide the best possible introduction to BASIC Stamp programming. Kit includes BASIC Stamp 2 module, Board of Education (USB), BASIC Stamp manual, CDROM (software & documentation), USB cable, and WAM parts and text book.



Part No.	Product No.	1	10
387971	27807	\$169.95	\$159.95

## PARALLAX Boe-Bot Full Kits

Now with Robotics text v.2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education and BASIC Stamp may be removed to be used as your platform for the other Stamps in Class curriculum. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot.



**Requires:** 4 AA batteries (P/N 198707 not included).

Part No.	Product No.	1	10
282933	28132 (serial)	\$158.95	\$142.95
387997	28832 (USB)	159.95	142.95

## PARALLAX BS2 Educational Starter Kit

This complete "Getting Started" kit is enhanced to include the *What's a Microcontroller?* (WAM) curriculum. Includes all of the BASIC Stamp hardware required to complete the activities and challenges. With the WAM kit you'll get your feet wet through a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps.

**Includes:** BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

Part No.	Product No.	1	10
282829	27207	\$165.95	\$149.95



## PARALLAX Board of Education Full Kit

- P0 - P15 I/O pins
- Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery
- DB9 connector for programming and serial communication
- Female 10-pin dual row connector for optional AppMods

**Includes:** Board of Education carrier board, BASIC Stamp 2 module, pluggable wires, serial cable and CD-ROM

**For complete specifications visit [www.Jameco.com](http://www.Jameco.com)**

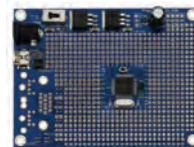
Part No.	Product No.	1	10
1536907	28103	\$109.95	\$99.95



**\*For All Parallax Products — Enter Web Code PAR**

## PARALLAX Propeller USB Proto Board

All the features of the Propeller Proto Board plus the USB Programming Interface on board for projects needing USB interfacing in their applications.



- P8X32A-Q44 Propeller chip
- Three-position power switch
- LM1086 5V and 3.3V regulators
- Access to all 32 I/O points
- 64kB EEPROM for program data and storage
- Removable 5MHz crystal
- Programming interface included on board
- Power requirements: 6-9VDC @ 300mA to 1.5A

Part No.	Product No.	Size (L" x W")	1	10
2007118	32812	4.0 x 3.0	\$39.95	\$35.95

## PARALLAX Propeller Starter Kit

Just what you need to get started with the Propeller microcontroller. Kit includes demo board, manual, software on CD and USB cable.



Has built-in P8X32A-Q44 MCU, EEPROM and 5MHz crystal pre-wired to connectors for interfacing to devices. This is all configured for immediate use by many objects from the Propeller Object Library (included).

Part No.	Product No.	1	10
2007097	32300	\$99.95	\$89.95

## PARALLAX Propeller Education Kit


This kit features breadboard-friendly versions of the Propeller chip, EEPROM and other core components making it easy and inexpensive for students to replace parts as needed. All you need is a 9V battery (P/N 198731).

**Includes:** Propeller 40-pin DIP microcontroller plus electronic components and connectors for a fully functional system, USB to serial programming and communications tool, kit project parts, interconnecting breadboards.

Part No.	Product No.	1	10
2007100	32305	\$99.95	\$89.95





PARALLAX 

## Sensors, Module & Accessories

- Compatible with most microcontrollers
- Easy interface
- See [www.Jameco.com](http://www.Jameco.com) for complete specs.

### Sensors

Part No.	Description	1	10
2082863	CO gas sensor .....	\$32.95	\$32.95
2082898	CO <sub>2</sub> gas sensor .....	32.95	32.95
2082871	LPG gas sensor .....	32.95	32.95
2082880	CH <sub>4</sub> gas sensor .....	32.95	32.95
2082901	HS1101 humidity sensor .....	6.95	6.25
2082927	PIR sensor .....	12.95	11.49

### Module

Part No.	Description	1	10
2082919	Gyroscope module .....	\$49.95	\$44.95

### Accessories

Part No.	Description	1	10
2082855	2-Axis joystick .....	\$11.95	\$11.49
2082935	SD Card Adapter .....	19.95	17.95

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## Hobbyist R/C Crystal Oscillators



75 MHz, compatible with Hitec Receivers

- FM/Q-PCM dual conversion crystal for DCX
- FM single conversion for HFS-03MM and HIS-03MK
- AM single conversion for HP-2NRB & HAS-2MB

### Crystal Oscillators

**\* Web Code: RCO**

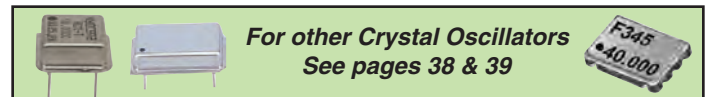
Pricing per Crystal Oscillator

Price per crystal	Price
	\$5.95



Channel	Part No.	Receiver	Part No.	Receiver	Part No.	Receiver
61	396412	1	396711	2	397010	3
62	396421	1	396720	2	397028	3
63	396439	1	396738	2	397036	3
64	396447	1	—	—	397044	3
65	396455	1	396754	2	397052	3
66	396463	1	396762	2	397061	3
67	396471	1	396771	2	397079	3
68	396480	1	—	—	397087	3
69	396498	1	—	—	397095	3
70	396501	1	396800	2	397108	3
71	396519	1	396818	2	397116	3
72	396527	1	396826	2	397124	3
73	396535	1	396834	2	397132	3
74	396543	1	396842	2	397141	3
75	396551	1	396851	2	397159	3
76	—	—	396869	2	397167	3
77	396578	1	396877	2	397175	3

Channel	Part No.	Receiver	Part No.	Receiver	Part No.	Receiver
78	396586	1	—	—	397183	3
79	396594	1	396893	2	397191	3
80	396607	1	396906	2	397204	3
81	396615	1	396914	2	397212	3
82	396623	1	396922	2	397221	3
83	396631	1	—	—	397239	3
84	396640	1	396949	2	397247	3
85	396658	1	396957	2	397255	3
86	396666	1	—	—	397263	3
87	396674	1	396973	2	397271	3
88	396682	1	—	—	397280	3
89	396691	1	—	—	397298	3
90	396703	1	397001	2	397301	3



## Books



Part No.	Description	* Web Code: BKS	No. of Pages	Price
387014	ROBOT TEAMS: DIVERSITY TO POLYMORPHISM		425	\$49.95
387031	SERVICE ROBOTS		216	44.95
215061	EASY MICROCONTROL'N VERSION 4.1		178	34.95
174650	PIC MICROCONTROLLER PROJECT BOOK		292	29.95
210489	TIME'N AND COUNT'N (VER 2.0)		218	34.95
305171	RECHARGEABLE BATTERIES, APPLICATION HANDBOOK.		290	49.95
136080	TROUBLE SHOOT & REPAIR CONSUMER ELECTRONICS without a schematic		461	29.95
355231	POCKET PC REFERENCE BOOK, 13th Edition		1088	14.95
137162	ELECTRIC MOTORS & CONTROL TECHNIQUES		294	24.95
171900	USB COMPLETE 3rd Edition		572	49.95
215052	MICROCONTROL'N APPS VERSION 3.0		437	39.95
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236945	EMBEDDED ETHERNET & INTERNET COMPLETE		482	49.95
88225	TEXAS INSTRUMENTS TTL DATABOOK		1240	34.95
210497	SERIAL COMMUNICATIONS (VER 3.0)		566	49.95

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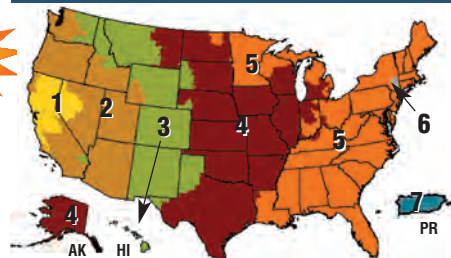
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# Featured Products

3 LEVELS OF SAVINGS  
NAME BRANDS HOUSE BRANDS FACTORY OVERRUN

JAMECO BenchPro

## Tool Kits & Third Hand Tools

Buy just about every tool needed for field repair and installation of electronics! Each of these kits includes a variation of screw drivers, nut drivers, tweezers, soldering equipment, IC extractors, tapes, scissors, crimpers, cutters, and more.

Need a third hand for your soldering services?

Free your hands with our third hand tools! Our third hand soldering tools have alligator clips that hold objects in place while you solder. They even have a magnifying glass for you to use small soldering pads for precise soldering. Easy to adjust and rotate, the third hand tool will not move when you push on it because of its sturdy base.



For More Tools See Pages 156 - 166

Part No.	Description	1	5
167206	12-piece Computer Tool Kit .....	\$15.95	\$13.95
119183	40-piece Computer Service Kit .....	21.95	19.95
26681	51-piece Tech Service Tool Kit .....	99.95	89.95
218245	52-piece Master Electronic Tool Kit .....	129.95	115.95
149024	69-piece Professional Tool Kit .....	299.95	269.95
242851	100-piece Professional Tool Kit .....	199.95	159.95
26690	Third Hand w/ Soldering Holder; 2.0" Dia. ....	5.95	5.49
72865	Third Hand w/ Stand & Sponge; 2.0" Dia. ....	8.95	7.95
681002	Third Hand w/ Stand & Sponge; 3.5" Dia. ....	8.95	7.95

## 3-in-1 Multimeter and Cable/Line Tester



Fulfill all your electrical testing needs with the Velleman DVM1000 multimeter! Perfect for home, school, and work. It tests resistance, continuity, current, and voltage for both AC and DC circuits. But there's more! It also tests 1.5V Alkaline batteries, 9V batteries, and even 6V batteries! Plus, it tests your RJ11 phone cables and RJ45 network cables for you. Not only will it tell you if your wiring is wrong, it'll also tell you what kind of error you made. You can even work in dimly lit places with this multimeter since it has its own backlight.

- Voltage Range: 0.2V AC/DC – 700V AC and 1000V DC
- Current Range: 200µA – 10A AC/DC
- Includes required 9V battery, test leads, remote box for cable testing and manual

velleman

For Complete Selection of Test Equipment See Pages 147 - 156

Part No.	Description	1	5
1955984	3-in-1 Multimeter .....	\$69.95	\$64.95

## DC Brushless Tubeaxial Fans

You will find hundreds of low noise fans at outstanding prices. Flip to pages 112-117 to find our full line of DC brushless tubeaxial fans, blowers, AC tubeaxial fans, power cords, guards, & filters. These agency-approved, low profile fans feature vapo, hypno, dual ball, ball, & sleeve bearings so you can be assured your system will be running cool for years to come. Our DC selection ranges in size from 25 to 172 mm & from 5 to 48 VDC while our AC selection ranges from 60 to 254 mm & from 115 to 220VAC.

For more details and specifications see pages 112 - 117 or visit our website for specification sheets.



1581265



695042

Part No.	Volts	CFM	Size	Bearing	1	10
1581265	5VDC	7	40 x 40 x 10	Sleeve .....	\$6.95	\$6.25
695042	24VDC	14	60 x 60 x 25	Ball .....	10.95	9.95

RoHS compliant product + This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 190.

## 4 to 12-Outlet Surge Protectors

Short on power sockets anywhere at home? Need something to protect your electronics from power surges? Use a surge protector! Jameco has you covered with many styles and sizes, one of these is sure to meet your needs without draining your pocket.



For Complete Specs See Page 177

Part No.	Manufacturer	Description	1	10
18981	Tripp-Lite	4-Outlet, 2200 joules .....	\$49.95	\$44.35
20175	ValuePro	6-Outlet, 50 joules .....	11.95	10.95
216485	ValuePro	6-Outlet, 150 joules .....	12.95	11.49
2082214	ValuePro	6-Outlet, 180 joules .....	4.95	4.49
2075647	Ideative, Inc.	6-Outlet, 2160 joules .....	24.95	22.49
168954	Tripp-Lite	7-Outlet, 750 joules .....	12.95	11.49
124337	Tripp-Lite	7-Outlet, 2350 joules .....	19.95	17.95
19001	Tripp-Lite	8-Outlet, 2350 joules .....	74.95	66.95
2079411	Belkin	8-Outlet, 2655 joules .....	16.95	13.95
139686	Tripp-Lite	12-Outlet, 750 joules .....	129.95	122.95

## DeoxIT® Contact Cleaner and Rejuvenator Spray

The DeoxIT D5 is a contact cleaner, rejuvenator, conductivity enhancer and lubricant all packed in a single can. This spray dissolves oxidation and corrosion from metal surfaces, fills in microscopic gaps and reseals surfaces for better contact to enhance the flow of electricity. DeoxIT® D5 improves connector performance and reliability.



NEW  
MARKED IN PINK

For More Chemicals & Cleaners See Page 167

Part No.	Description	1	10
195004	6 oz. DeoxIT® Contact Cleaner .....	\$16.95	\$15.95



## Technic Off-Roader

Build the most radical, powerful, and functional off-road truck with the LEGO Technic Off-Roader Kit. Just like the real thing, its battery power pack and functional modules allow you to adjust the suspension for clearance and turn the bright LED headlights on or off. Use the motorized front-mounted winch to pull the off-roader, open the back hatch, gull-wing doors and hood to reveal the motor. Measuring 15" long and requiring only 6AA batteries (not included, use P/N 198707) this V8 vehicle will keep you busy for hours. When your done, this kit can be rebuilt into a buggy for even more hours of driving time.



NEW  
MARKED IN PINK

For More Robotics See Pages 183 - 189

Part No.	Description	1	5
2095031	1097-Pc. Intermediate Level Off-Roader Kit .....	\$129.95	\$119.95



## Tape Products

Stuck in a Sticky Situation?

Jameco's tape selection can help you solve your problems. Our product line includes all types of electrical tape, masking tape, duct tape, double-sided foam tape, rubber splicing tape, even safety stripe tape! Never get stuck again.



For Complete Selection See Pages 167

Part No.	Description	Size	1	10
285587	Black Vinyl Tape	3/4" x 60' .....	\$1.09	\$0.99
652130	Blue Vinyl Tape	3/4" x 66' .....	4.95	4.79
645159	Red Vinyl Tape	2" x 108' .....	27.95	24.95
285907	Double Sided Foam	1/8" x 1" x 12' .....	15.95	14.95

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## Flashing LED Kits



Brighten up your home for the holidays with these LED kits. Place the parts in their sockets and solder them in. Expand your experience soldering and working with electronics using these kits. Build the Flashing Pumpkin kit for Halloween and the Santa Sleigh and Reindeer kit for Christmas. Even build a flashing mini-Christmas tree. Each kit requires soldering and one 9V battery, recommend P/N 198731.

For Soldering Irons See Pages 161 - 163

Part No.	Description	No. of LEDs	1	5
236081	Halloween Pumpkin	25	\$11.95	\$10.95
147635	Christmas Tree	16	6.95	6.25
236072	Deluxe Christmas Tree	134	19.95	18.95
211781	3D Christmas Tree	16	9.95	8.95
211764	Santa Sleigh and Reindeer	126	19.95	17.95

## High Power LEDs & Power LED Driver Modules

velleman  
VASTECH INC.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

Surface mountable and compact in size, these high-power LEDs have super high-flux output and high luminance, with low thermal resistance and no UV output. Power them up with a high efficiency LED driver module that delivers an accurate constant current; 350mA for 1-watt LEDs or 700mA for 3-watt LEDs. Together these LEDs and drivers can be used for many applications such as: traffic signals, interior or exterior automotive lighting, decorative/entertainment lighting, marker lights and many other commercial, industrial and architectural applications.

2081967: 1W SMT amber LED, water clear lens, 120° viewing angle

2006895: 1W star-shaped LED, white, 90° viewing angle

2006908: 3W star-shaped LED, white, 90° viewing angle

For Complete Selection of LEDs See Pages 25 - 38

Part No.	Description	Fig.	1	10
2081967	1-Watt Surface Mount LED, 17.6 lm	1	\$1.75	\$1.59
2006895	1-Watt Star LED, 40 lm	2	7.95	7.25
2006908	3-Watt Star LED, 120 lm	2	14.95	13.49
2006916	1-Watt Driver, 9-18VDC @ 650mA	3	32.95	29.65
2006924	3-Watt Driver, 9-18VDC @ 700mA	3	35.95	32.35
2006861	3-Watt Driver, 3-21VDC @ 700mA	5	18.95	16.95
2006887	3-Watt Driver, 3-21VDC @ 700mA	4	18.95	16.95
2006852	10-Watt Driver, 3-36VDC @ 350mA	5	17.95	15.95
2006879	10-Watt Driver, 3-36VDC @ 350mA	4	17.95	15.95



## Square EMI Suppression Core

Suppress electro magnetic interference on wires with our EMI suppression core. The plastic case snaps easily to secure EMI core to the cord. Fits most wires with an overall diameter of 0.39".



For More Suppression Cores & Filters See Pages 129 & 131

Part No.	Description	Size (ID x OD x L)	1	10
1536958	EMI Suppression Core	.39" x .87" x 1.28"	\$1.95	\$1.75

\*For Complete Specs & Additional Product Listings Search [www.Jameco.com/More](http://www.Jameco.com/More) and Enter Web Code Listed Above

LASCAR  
electronics

## Panel Meters

Mount a panel meter in under a minute!

Introducing the new single hole, drill-mountable EM Series of displays including an analog-style LCD, thermometer, elapsed hour meter, and an LCD voltage meter. Each unit has an overall dimension of 1.73"W x 0.825"H x 0.22" thick and a viewable display dimension of 1.26"W x 0.60"H. No need to cut a panel out to mount these meters. Simply drill a single 5.5mm (7/32") diameter hole into the panel. The module is fitted into the panel by locating its stud through the hole, fitting the washer and tightening the nut provided. Connecting wires pass through the hollow stud into the application for connection. A rubber seal is included providing splash proof protection for the unit when fitted into the meter during application.



2095040

For More Panel Meters See Pages 146

Part No.	Product No.	Description	No. of Digits	1	10
2095040	EMV1200	Voltage Meter	3	\$33.95	\$30.95
2095058	EMT1900	Thermometer	3.5	33.95	30.95
2095074	EMC1500	Elapsed Hour Meter	5	33.95	30.95
2095082	EMA1710	9-Segment Meter	Analog	33.95	30.95

Horizon  
Fuel Cell Technologies

## H-Racer 2.0

The H-Racer 2.0 is the world's smallest hydrogen fuel cell car, and a miniature version of the real-size hydrogen cars being developed today. An educational construction kit that contains one of the most exciting and advanced technologies of the 21st century, "hydrogen". This car operates on 100% clean fuel produced by a miniature solar powered hydrogen refueling station that converts water to hydrogen using energy captured from the sun. The kit includes an on-board hydrogen storage tank, a fuel-cell system connected to the car's electric motor, and a hydrogen refueling valve system that can connect the car's storage tank to an external hydrogen refueling station.

For More Kits See Pages 183 - 185

Part No.	Size (L" x W" x H")	No. of Pcs.	Difficulty	1	5
2095007	6.13 x 2.75 x 2.0	17	Intermediate	\$119.95	\$109.95

OWI

## Robotic Arm Edge

Designed mainly for hobbyists and educational purposes, the wired robotic arm will teach you the basics of robotics. The kit features a gripper that can open and close, a wrist motion of 120 degrees, an extensive elbow range of 300 degrees, a base rotation of 270 degrees and base motion of 180 degrees. The arm has a vertical reach of 15 inches and a horizontal reach of 12.6 inches with a lifting capacity of 3.5 ounces (100g). Other added features of this robotic arm include a search light design on the gripper and a safety gear audible indicator on all five gear boxes for preventing any potential injury or gear breakage. No soldering required.

For More Robotics See Pages 183 - 189

Part No.	Description	No. of Pcs.	Difficulty	1	5
2095023	Robotic Arm	187	Intermediate	\$49.95	\$44.95

KESTER

## Kester Solder Pocket Paks®

They are back from Kester. Pocket pak solder from Kester are lightweight, easy to carry around in your pocket and provides quick repairs for field technicians, electricians, and do-it-yourselfers. Each weighs less than 1.5 ounces and solder diameter ranges from 0.020" to 0.050".



73576

For More Soldering Accessories See Pages 165 - 166

Part No.	Description	Diameter	Wt. (oz.)	1	10
73576	SN 60%, PB 40%	0.03"	0.5	\$3.25	\$2.95
94570	SN 60%, PB 40%	0.05"	1.3	3.49	3.19
73605	SN 62%, PB 36%	0.02"	0.35	3.79	3.39



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### \*\*\* FEATURED PRODUCTS \*\*\*

#### Standard, Low Profile, Right Angle & Piano Style DIP Switches

See pages 90 - 96 for our complete selection of switches.

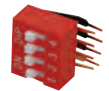
Part No.	Mfr.	Product No.	Position	Body Style	Actuator Style	1	10	100	1000
1951385	ValuePro	206-2LP	2	Low Profile	Flush Slide	\$.59	\$.49	\$.45	\$.39
2076156	Bourns	SDAX-2RX-X	2	Rt. Angle	Raised Slide	\$.59	\$.49	\$.45	\$.39
2082231	AMP	3-435640-5	4	Standard	Raised Rocker	\$.69	\$.59	\$.49	\$.45
206499	Fujitsu	DPS804	4	Low Profile	Piano Style	\$.79	\$.69	\$.59	\$.49
2076164	Bourns	SDAX-4RX-X	4	Rt. Angle	Raised Slide	\$.69	\$.59	\$.49	\$.45
2082249	Various	JS8800-5	5	Standard	Flush Slide	\$.59	\$.49	\$.45	\$.39
2076674	ValuePro	DPL-06KT	6	Standard	Piano Style	\$.79	\$.69	\$.59	\$.49
2076201	Omron	A6D-6100PL	6	Low Profile	Flush Slide	\$.69	\$.59	\$.49	\$.45
2082257	C&K	BC07	7	Standard	Raised Slide	\$.69	\$.59	\$.49	\$.45
2082441	ValuePro	KS21193	7	Standard	Raised Rocker	\$.75	\$.65	\$.55	\$.49
2082484	AMP	5-435810-4	8	Standard	Raised Rocker	\$.89	\$.79	\$.69	\$.59
2082273	Various	1109-6952	9	Standard	Flush Slide	\$.69	\$.59	\$.49	\$.45
2082281	Various	IS-880D-10	10	Standard	Flush Slide	\$.75	\$.59	\$.49	\$.45
2082290	Various	902018	12	Standard	Flush Slide	\$.79	\$.69	\$.59	\$.55



2082231 (Standard)



206499 (Low Profile)



2076164 (Right Angle)



2076674 (Piano Style)

#### Amphenol Connex Connectors

Amphenol Connex is a dedicated connector company that designs, manufactures and distributes world-class RF connectors of all types.

- Non-stop QC on machinery, raw materials and finished connectors assures consistent quality products that perform to specifications
- All connectors fully sweep tested, dielectric tested and VSWR rated to assure consistent performance specifications



For Complete Selection of RF Connectors see pages 83 - 87.

Part No.	Product No.	Description	1	10	50
295953	112116	50Ω BNC plug, captive contact for RG58A/58B/58C/141/303	\$1.49	\$1.35	\$1.19
296008	112132	50Ω BNC plug, captive contact for RG174/188A/316/B7805A	2.49	2.25	1.75
658507	112445	50Ω BNC straight adapter, jack-jack	2.69	2.49	2.25
658515	112460	50Ω BNC T-adapter, jack-plug-jack	2.39	2.19	1.95
296227	132101	50Ω SMA straight cable plug w/ contact (RG-405U)	2.79	2.49	2.25
659059	132170	50Ω SMA jack-jack adapter, bulkhead feedthru	6.49	6.25	5.95

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